

SERVICE MANUAL

Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's

Sec. 2: Deck Mechanism Section

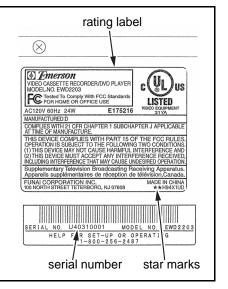
- Standard Maintenance
- Alignment for Mechanism
- Disassembly/Assembly of Mechanism
- Alignment Procedures of Mechanism

Sec. 3: Exploded views and Parts List Section

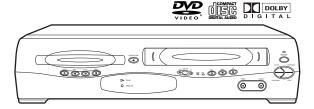
- Exploded views
- Parts List

This service manual is for the EWD2203 and EWD2003 Updated Version, which the serial numbers are later than U40310001 (EWD2203) or U44310001 (EWD2003).

These models differ from the models with the previous EWD2203 or EWD2003, and that star marks (\star) are printed on the rating label are their applicable models. For the rating label on the rear panel, refer to right (example: EWD2203).



DVD PLAYER & VIDEO CASSETTE RECORDER EWD2203 EWD2003







IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all Funai Equipment. The service procedures recommended by Funai and described in this service manual are effective methods of performing service operations. Some of these service special tools should be used when and as recommended.

It is important to note that this service manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Funai could not possibly know, evaluate and advice the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Funai has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Funai must first use all precautions thoroughly so that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

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MAIN SECTION

DVD PLAYER & VIDEO CASSETTE RECORDER EWD2203/EWD2003

Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's

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SPECIFICATIONS

< VCR Section >

Description	Unit	Minimum	Nominal	Maximum	Remark
1. Video					
1-1. Video Output (PB)	Vp-p	0.8	1.0	1.2	SP Mode
1-2. Video Output (R/P)	Vp-p	0.8	1.0	1.2	
1-3. Video S/N Y (R/P)	dB	40	45		SP Mode, W/O Burst
1-4. Video Color S/N AM (R/P)	dB	37	41		SP Mode
1-5. Video Color S/N PM (R/P)	dB	30	36		SP Mode
1-6. Resolution (PB)	Line	230	245		SP Mode
2. Servo					
2-1. Jitter Low	μsec		0.07	0.12	SP Mode
2-2. Wow & Flutter	%		0.3	0.5	SP Mode
3. Normal Audio					
3-1. Output (PB)	dBV	-9	-6	-3	SP Mode
3-2. Output (R/P)	dBV	-9	-6	-1.5	SP Mode
3-3. S/N (R/P)	dB	36	41		SP Mode
3-4. Distortion (R/P)	%		1.0	4.0	SP Mode
3-5. Freq. resp (R/P) at 200Hz	dB	-11	-4		SP Mode
(-20dB ref. 1kHz) at 8kHz	dB	-14	-4		SP Mode
4. Tuner					
4-1. Video output	Vp-p	0.8	1.0	1.2	E-E Mode
4-2. Video S/N	dB	39	42		E-E Mode
4-3. Audio output	dB	-10	-6	-2	E-E Mode
4-4. Audio S/N	dB	40	46		E-E Mode

Note: Nominal specs represent the design specs. All units should be able to approximate these – some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; In no case should a unit fail to meet limit specs.

1-1-1

H94X1SP

< DVD Section >

ITEM	CONDITIONS	UNIT	NOMINAL	LIMIT
1. Video Output	75 ohm load	Vpp	1.0	± 0.1
2. Coaxial Digital Out	75 ohm load	m∨pp	500	± 100
3. Audio (PCM)				
3-1. Output Level	1kHz 0dB	Vrms	2.0	
3-2. S/N		dB	100	
3-3. Freq. Response				
DVD fs=48kHz 20~22kHz		dB	± 0.5	
CD fs=44.1kHz 20~20 kHz		dB	± 0.5	
3-4. THD+N				
DVD 1 kHz 0dB		%	0.05	
CD	CD 1 kHz 0dB		0.003	

NOTES:

1. All Items are measured without pre-emphasis unless otherwise specified.

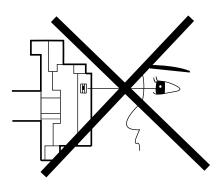
2. Power supply: AC120 V 60 Hz

3. Load imp. : 100 K ohm 4. Room ambient : +25 °C

1-1-2 H94X1SP

LASER BEAM SAFETY PRECAUTIONS

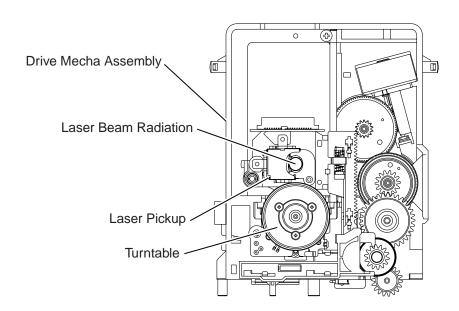
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

Caution: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



CAUTION
LASER RADIATION
WHEN OPEN. DO NOT
STARE INTO BEAM.

Location: Inside Top of DVD mechanism.

1-2-1 DVD_LASER

IMPORTANT SAFETY PRECAUTIONS

Product Safety Notice

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a A on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- **A.** Parts identified by the **\(\Lambda \)** symbol are critical for safety. Replace only with part number specified.
- **B.** In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.

 Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- C. Use specified internal wiring. Note especially:
 - 1)Wires covered with PVC tubing
 - 2)Double insulated wires
 - 3)High voltage leads
- **D.** Use specified insulating materials for hazardous live parts. Note especially:
 - 1)Insulation tape
 - 2)PVC tubing
 - 3)Spacers
 - 4)Insulators for transistors
- E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- **F.** Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- **G.** Check that replaced wires do not contact sharp edges or pointed parts.
- **H.** When a power cord has been replaced, check that 5 6 kg of force in any direction will not loosen it.

- I. Also check areas surrounding repaired locations.
- **J.** Be careful that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K. Crimp type wire connector

The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.

Replacement procedure

- 1)Remove the old connector by cutting the wires at a point close to the connector.
 - Important: Do not re-use a connector. (Discard it.)
- 2)Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
- 3)Align the lengths of the wires to be connected. Insert the wires fully into the connector.
- 4)Use a crimping tool to crimp the metal sleeve at its center. Be sure to crimp fully to the complete closure of the tool.
- L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

1-3-1 DVD_SFN1

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Clearance Distance (d) (d')
120 V	≥ 3.2mm (0.126 inches)

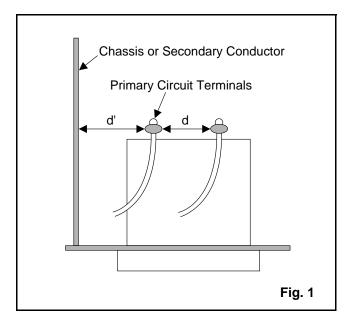
Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method (Power ON):

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.



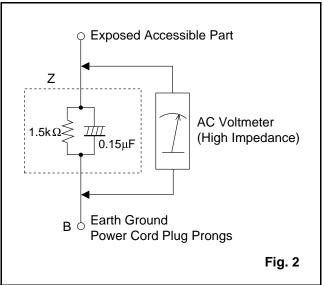


Table 2: Leakage current ratings for selected areas

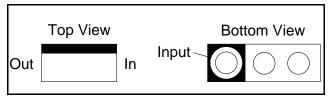
AC Line Voltage	Load Z	Load Z Leakage Current (i)	
120 V	0.15μF CAP. & 1.5kΩ RES. Connected in parallel	i≤0.5mA Peak	Exposed accessible parts

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

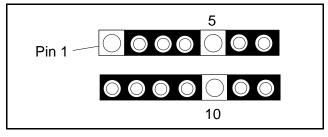
STANDARD NOTES FOR SERVICING

Circuit Board Indications

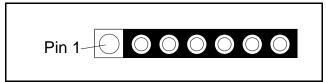
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

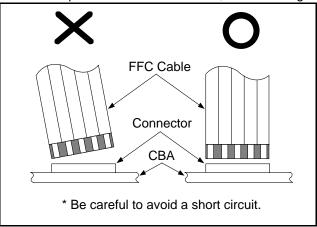


The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

- 1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
- 2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.

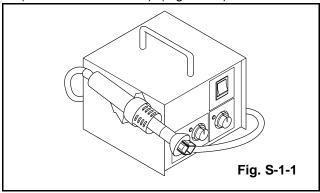


How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:.

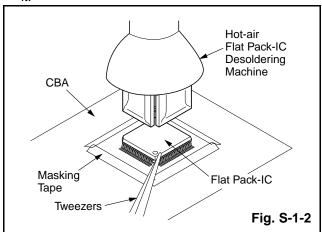
(1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)



- (2) Remove the flat pack-IC with tweezers while applying the hot air.
- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Caution:

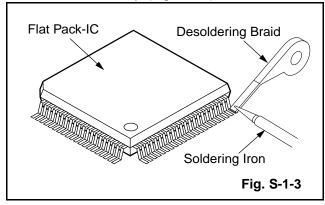
- Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
- The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.



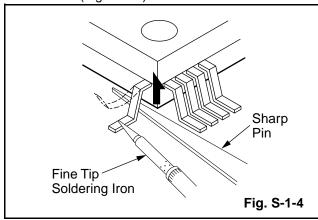
1-4-1 DVD NOTE

With Soldering Iron:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



(2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)



- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

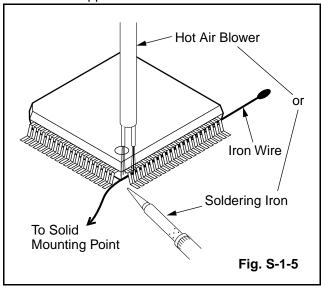
With Iron Wire:

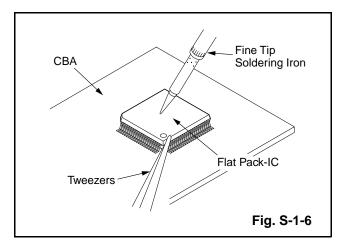
- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5

- (4) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note:

When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

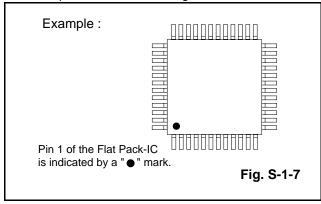


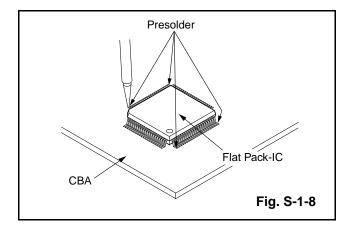


1-4-2

2. Installation

- (1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
- (2) The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
- (3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.





Instructions for Handling Semi-conductors

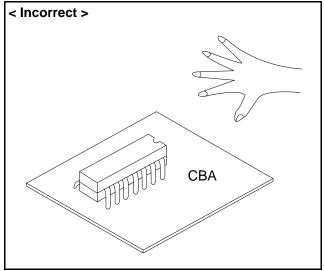
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

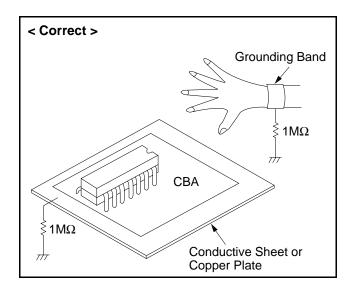
1. Ground for Human Body

Be sure to wear a grounding band $(1M\Omega)$ that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

(1) Be sure to place a conductive sheet or copper plate with proper grounding $(1M\Omega)$ on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.





1-4-3 DVD NOTE

PREPARATION FOR SERVICING

How to Enter the Service Mode

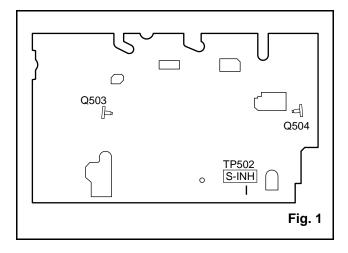
About Optical Sensors

Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

What to do for preparation

Insert a tape into the Deck Mechanism Assembly and press the PLAY button. The tape will be loaded into the Deck Mechanism Assembly. Make sure the power is on, connect TP502 (SENSOR INHIBITION) to GND. This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.) See Fig. 1.

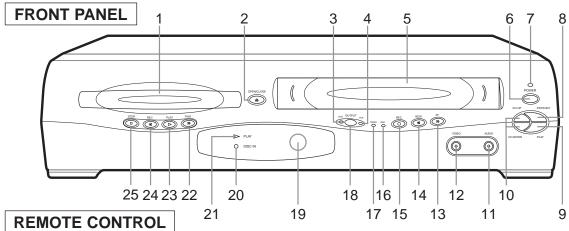


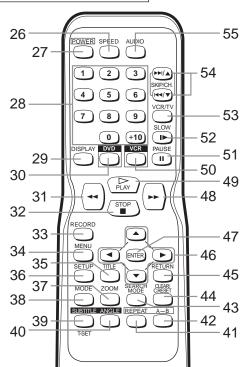
Note: Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

1-5-1 H9400PFS

OPERATING CONTROLS AND FUNCTIONS

[EWD2203]





1. Disc loading tray

2. OPEN/CLOSE Button

Press to insert discs into or remove them from the

3. DVD OUTPUT Light (Green)

This light appears when the DVD output mode is selected. You can only watch DVDs when the green DVD OUTPUT light is on. To make the green DVD OUTPUT light come on, press DVD on the remote control or OUTPUT on the front panel.

4. VCR OUTPUT Light (Green)

This light appears when the VCR output mode is selected. You can only watch tapes when the green VCR OUTPUT light is on. To make the green VCR OUTPUT light come on, VCR on the remote control or OUTPUT on the front panel.

5. CASSETTE COMPARTMENT

6. POWER Button

Press to turn the power on and off.

7. POWER Light (red)

Light appears when the power is on.

8. STOP/EJECT Button (VCR) **EJECT**

Press to remove the tape from the VCR. STOP

Press to stop the tape motion.

9. PLAY Button(VCR)

Press to begin playback.

10. CH-(UP/DOWN) Buttons

In VCR mode, press to change TV channels on the VCR; press to adjust the tracking during normal or slow motion playback; press to remove vertical jitter in a Still picture.

11. AUDIO În Jack

Connect an audio cable coming from the audio out jack of a camcorder, another VCR, or an audio source here.

12. VIDEO In Jack

Connect a video cable coming from the video out jack of a camcorder, another VCR, or a video source (laser disc player, camcorder, etc.) here.

13. FF Button (VCR)

Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search).

14. REW Button (VCR)

Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).

15. REC Button

Press once to start a recording. Press repeatedly to start a One-Touch Recording.

16. REC Light

Light appears during recording.

17. TIMER Light

Light appears when the DVD/VCR is in standby mode for a timer recording or during a One-Touch Recording. It flashes if T-SET is pressed for a timer recording, but there is no tape in the DVD/VCR. It flashes when all timer recordings or One-Touch Recordings are finished.

1-6-1 H94X1IB

18. OUTPUT Button

Press to select DVD mode or VCR mode.

You can switch the output mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to re-select the corresponding mode by pressing DVD or VCR on the remote control.

19. Remote Sensor Window

20. DISC IN Light (green)

Light appears when a disc is in the DVD Player.

21. PLAY Light (green)

Light appears during Disc playback.

22. FWD Button (DVD)

Press to fast forward the Disc. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the forward speed of slow motion.

Press to skip Chapters or Tracks.

23. PLAY Button (DVD)

Press to begin playback.

24. REV Button (DVD)

Press to view the DVD picture in fast reverse motion or to reverse playback of an Audio CD. Press to skip Chapters or Tracks.

25. STOP Button (DVD)

Stops operation of the disc.

26. SPEED Button

Press to select the VCR's recording speed (SP or SLP)

27. POWER Button

Press to turn the power on and off.

28. Number Buttons

DVD mode

Press to select numbered items in a menu.

+10

Use this button to enter number 10 and above.

VCR mode

Press to select TV channels on the VCR.

To select channels, enter channel numbers as a two-digit number for the quickest results. For example, to select channel 6, press 0 then 6.

29. DISPLAY Button

DVD mode

Press to access or remove the display screen during DVD or Audio CD playback.

VCR mode

Press to access or remove the VCR's on-screen status display.

30. DVD Button

Press to select DVD mode for the remote control.

You can switch the output mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to reselect the corresponding mode by pressing DVD or VCR on the remote control.

31. ◀◀ Button

DVD mode

Press to view the DVD picture in fast reverse motion. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the reverse speed of slow motion.

VCR mode

Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).

32. STOP Button

DVD mode

Press to stop the disc motion.

VCR mode

Press to stop the tape motion.

33. RECORD Button

Press once to start a recording.

34. MENU Button

DVD mode

Press to display the menu of the Disc.

VCR mode

Press to access the VCR menu.

35. TITLE Button

36. SETUP Button

Press to enter DVD player setup mode.

37. ZOOM Button

Enlarges part of a DVD-reproduced image.

38. MODE Button

Activates program playback or random playback mode when playing CDs or MP3. Sets Black level and virtual surround.

39. SUBTITLE Button

Press to select the desired subtitle language.

T-SET Button

Press to put the VCR into standby mode for a timer recording.

40. ANGLE Button

Press to change the camera angle to see the sequence being played back from a different angle.

41. REPEAT Button

Repeats playback of the current disc, title, chapter or track.

42. A-B REPEAT Button

Repeats playback of a selected section.

43. SEARCH MODE Button

DVD mode

Press to access or remove the Search display, which allows you to go directly to a specific Title/Chapter/Track/Time.

VCR mode

Press to perform a Time Search or an Index Search.

44. CLEAR/C.RESET Button

DVD mode

Press to reset the setting.

VCR mode

Press to reset the counter. Press to exit from the MENU screen.

45. RETURN Button

DVD mode

Returns to the previous operation.

46. Arrow Buttons

Use when making settings while watching the display on a TV screen.

DVD mode

Moves the cursor and determines its position.

VCR mode

▼/▲ Buttons

Press to enter digits when setting program (For example: setting clock or timer program). Press to select the setting modes from the on screen menu.

▶ Button

When setting program (For example: setting clock or timer program), press to determine your selection and proceed to the next step you want to input. Press to determine the setting modes from the on screen menu. Press to add or delete channel numbers during channel preset.

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⋖Button

Press to cancel a setting of timer program. Press to correct digits when setting program (For example: setting clock or timer program). Press to add or delete channel numbers during channel preset.

47. ENTER Button

DVD mode

Press to accept a setting.

48. **▶▶** Button

DVD mode

Press to fast forward the Disc. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the forward speed of slow motion.

VCR mode

Press to rapidly advance the tape, or view the picture rapidly in forward during playback (Forward Search).

49. PLAY Button

DVD mode

Press to begin playback.

VCR mode

Press to begin playback.

50. VCR Button

Press to select VCR mode for the remote control.

•You can switch the OUTPUT mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to re-select the corresponding mode by pressing DVD or VCR on the remote control.

51. PAUSE Button

DVD mode

Press to pause Disc playback. Press repeatedly to advance the DVD picture step by step (or one frame at a time).

VCR mode

While recording, press to temporarily stop the recording (pause). Press a second time to resume normal recording. You can not pause a One-Touch Recording. Or, press during tape playback to freeze the picture. Press to advance the picture one frame at a time during still mode.

52. SLOW Button

During tape playback, press to view the video tape in slow motion. To return to playback, press PLAY. This button does not affect DVD playback.

53. VCR/TV Button

Use to select VCR or TV position.

VCR Position

To view playback, to monitor video recording or to watch TV using the VCR tuner.

TV Position

To watch TV or to view one program while recording another.
54. SKIP/CH. Buttons

DVD mode

Press to skip Chapters or Tracks.

VCR mode

Press to change TV channels on the VCR.

55. AUDIO Button

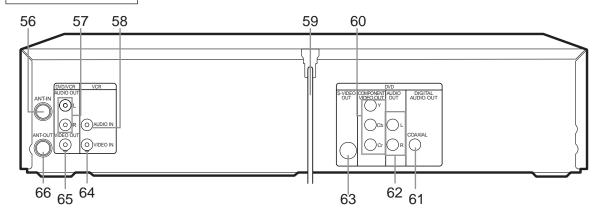
Press to select a desired audio language or sound mode.

Notes

- To use the remote control to operate the DVD/VCR COMBINATION UNIT and its features, press DVD on the remote control before pressing other DVD operation button. Verify that the green DVD OUTPUT Light
- To use the remote control to operate the VCR and its features, press VCR on the remote control before pressing other VCR operation button. Verify that the green VCR OUTPUT Light is on.

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REAR VIEW



56. ANT-IN (Antenna In) Jack

Connect your antenna, Cable Box, or Satellite decoder box.

57. DVD/VCR AUDIO OUT Jacks

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment.

58. AUDIO IN Jack

Connect an audio cable coming from the audio out jack of a camcorder, another VCR, or an audio source here.

59. AC Power Cord

Connect to a standard AC outlet to supply power to the DVD/VCR COMBINATION UNIT.

DVD Playback only

60. COMPONENT VIDEO OUT Jacks

Connect optional component video cables here and to the component Video In jacks of a television.

61. COAXIAL Jack

Connect an optional coaxial digital audio cable here and to the Coaxial Digital Audio In jack of a decoder or audio receiver.

62. DVD ANALOG AUDIO OUT Jacks

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment (DVD only).

63. S-VIDEO OUT Jack

Connect an optional S-Video cable here and to the S-Video In jack of a television. (DVD only).

64. VIDEO IN Jack

Connect a cable coming from the video out jack of a camcorder, another VCR, or an audio-visual source (laser disc player, video disc player, etc.) here.

65. DVD/VCR VIDEO OUT Jack

Connect the yellow video cable (supplied) here and to the TV's Video In jack.

66. ANT-OUT (Antenna Out) Jack

Use the supplied RF coaxial cable to connect this jack to the ANTENNA IN Jack on your TV.

Notes

 The S-VIDEO OUT jack, COAXIAL jack, and COM-PONENT VIDEO OUT jack are only useful in DVDmode.

Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the player.

LOADING THE BATTERIES

- 1. Open the battery compartment cover.
- 2. Insert two AA batteries (supplied), with each one oriented correctly.
- 3. Close the cover.

Notes

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

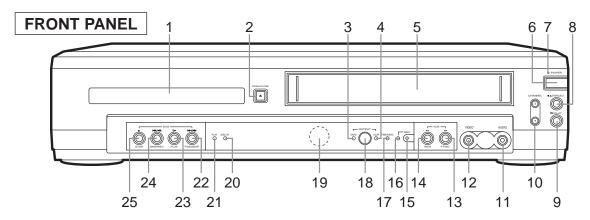




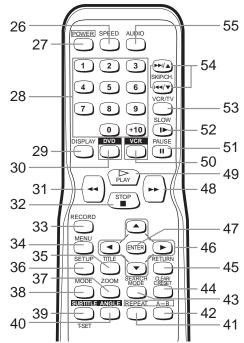


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[EWD2003]



REMOTE CONTROL



1. Disc loading tray

2. OPEN/CLOSE Button

Press to insert discs into or remove them from the tray.

3. DVD OUTPUT Light (Green)

This light appears when the DVD output mode is selected. You can only watch DVDs when the green DVD OUTPUT light is on. To make the green DVD OUTPUT light come on, press DVD on the remote control or OUTPUT on the front panel.

4. VCR OUTPUT Light (Green)

This light appears when the VCR output mode is selected. You can only watch tapes when the green VCR OUTPUT light is on. To make the green VCR OUTPUT light come on, VCR on the remote control or OUTPUT on the front panel.

5. Cassette compartment

6. POWER Button

Press to turn the power on and off.

7. POWER Light

This light appears when the power is on.

8. STOP/EJECT Button (VCR) EJECT

Press to remove the tape from the VCR.

STOP

Press to stop the tape motion.

9. PLAY Button(VCR)

Press to begin playback.

10. CHANNEĽ (▲/▼) Buttons

In VCR mode, press to change TV channels on the VCR; press to adjust the tracking during normal or slow motion playback; press to remove vertical jitter in a Still picture.

11. AUDIO In Jack

Connect audio cable coming from the audio out jack of a camcorder, another VCR, or an audio source here.

12. VIDEO In Jack

Connect a video cable coming from the video out jack of a camcorder, another VCR, or a video source (laser disc player, camcorder, etc.) here.

13. F.FWD Button (VCR)

Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search).

14. RÉW Button (VCR)

Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).

15. REC/OTR Button

Press once to start a recording. Press repeatedly to start a One-Touch Recording.

16. REC Light

Lights up during recording.

17. TIMER REC Light

This light appears when the DVD/VCR is in standby mode for a timer recording or during a One-Touch Recording. It flashes if T-SET is pressed for a timer recording, but there is no tape in the DVD/VCR. It flashes when all timer recordings or One-Touch Recordings are finished.

18. OUTPUT Button

Press to select DVD mode or VCR mode.

You can switch the output mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to reselect the corresponding mode by pressing DVD or VCR on the remote control.

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19. Remote Sensor Window

20. DISC IN Light (green)

Light appears when a disc is in the DVD Player.

21. PLAY Light (green)

Light appears during Disc playback.

22. FWD/SKIP Button (DVD)

Press this button during playback to fast forward the Disc. Press this button in PAUSE mode to slow forward the Disc. Press to skip Chapters or Tracks.

23. PLAY Button (DVD)

Press to begin playback.

24. SKIP/REV Button (DVD)

Press this button during playback to fast reverse the Disc. Press this button in PAUSE mode to slow reverse the Disc. Press to skip Chapters or Tracks.

25. STOP Button (DVD)

Stops operation of the disc.

26. SPEED Button

Press to select the VCR's recording speed (SP or SLP)

27. POWER Button

Press to turn the power on and off.

28. Number Buttons

DVD mode

Press to select numbered items in a menu.

+10

Use this button to enter number 10 and above.

VCR mode

Press to select TV channels on the VCR.

To select channels, enter channel numbers as a two-digit number for the quickest results. For example, to select channel 6, press 0 then 6.

29. DISPLAY Button

DVD mode

Press to access or remove the display screen during DVD or Audio CD playback.

VCR mode

Press to access or remove the VCR's on-screen status display.

30. DVD Button

Press to select DVD mode for the remote control.

You can switch the OUTPUT mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to reselect the corresponding mode by pressing DVD or VCR on the remote control.

31. ◀◀ Button

DVD mode

Press to view the DVD picture in fast reverse motion. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the reverse speed of slow motion.

VCR mode

Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).

32. STOP Button

DVD mode

Press to stop the disc motion.

VCR mode

Press to stop the tape motion.

33. RECORD Button

Press once to start a recording.

34. MENU Button

DVD mode

Press to display the menu of the Disc.

VCR mode

Press to access the VCR menu.

35. TITLE Button

36. SETUP Button

Press to enter DVD player setup mode.

37. ZOOM Button

Enlarges part of a DVD-reproduced image.

38. MODE Button

Activates program playback or random playback mode when playing CDs or MP3. Sets Black level and virtual surround.

39. SUBTITLE Button

Press to select the desired subtitle language.

T-SET Button

Press to put the VCR into standby mode for a timer recording.

40. ANGLE Button

Press to change the camera angle to see the sequence being played back from a different angle.

41. REPEAT Button

Repeats playback of the current disc, title, chapter or track.

42. A-B REPEAT Button

Repeats playback of a selected section.

43. SEARCH MODE Button

DVD mode

Press to access or remove the Search display, which allows you to go directly to a specific Title/Chapter/Track/Time.

VCR mode

Press to perform a Time Search or an Index Search.

44. CLEAR/C.RESET Button

DVD mode

Press to reset the setting.

VCR mode

Press to reset the counter. Press to exit from the MENU screen.

45. RETURN Button

DVD mode

Returns to the previous operation in the DVD setup mode.

46. Arrow Buttons

Use when making settings while watching the display on a TV screen.

VCR mode

▼/▲ Buttons

Press to enter digits when setting program (For example: setting clock or timer program). Press to select the setting modes from the on screen menu.

▶Button

When setting program (For example: setting clock or timer program), press to determine your selection and proceed to the next step you want to input. Press to determine the setting modes from the on screen menu. Press to add or delete channel numbers during channel preset.

⋖Button

Press to cancel a setting of timer program. Press to correct digits when setting program (For example: setting clock or timer program). Press to add or delete channel numbers during channel preset.

47. ENTER Button

DVD mode

Press to accept a setting.

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48. **▶▶** Button

DVD mode

Press to fast forward the Disc. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the forward speed of slow motion.

VCR mode

Press to rapidly advance the tape, or view the picture rapidly in forward during playback (Forward Search).

49. PLAY Button

DVD mode

Press to begin playback.

VCR mode

Press to begin playback.

50. VCR Button

Press to select VCR mode for the remote control.

You can switch the OUTPUT mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to reselect the corresponding mode by pressing DVD or VCR on the remote control.

51. PAUSE Button

DVD mode

Press to pause Disc playback. Press repeatedly to advance the DVD picture step by step (or one frame at a time).

VCR mode

While recording, press to temporarily stop the recording (pause). Press a second time to resume normal recording. You can not pause a One-Touch Recording. Or, press during tape playback to freeze the picture. Press to advance the picture one frame at a time during still mode.

52. SLOW Button

During tape playback, press to view the video tape in slow motion. To return to playback, press PLAY.

53. VCR/TV Button

Use to select VCR or TV position.

VCR Position

To view playback, to monitor video recordings or to watch TV using the VCR tuner.

TV Position

To watch TV or to view one program while recording another.

54. SKIP/CH. Buttons

DVD mode

Press to skip Chapters or Tracks.

VCR mode

Press to change TV channels on the VCR.

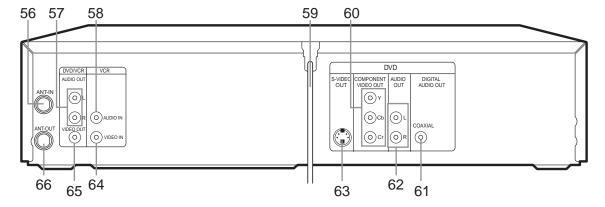
55. AUDIO Button

Press to select a desired audio language or sound mode.

Notes

- To use the remote control to operate the DVD/VCR COMBINATION UNIT and its features, press DVD on the remote control before pressing other DVD's operation buttons. Verify that the green DVD OUT-PUT Light is on.
- To use the remote control to operate the VCR and its features, press VCR on the remote control before pressing other VCR's operation buttons. Verify that the green VCR OUTPUT Light is on.

REAR VIEW



56. ANT-IN (Antenna In) Jack

Connect your antenna, Cable Box, or Satellite decoder

57. DVD/VCR AUDIO OUT Jacks

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment.

58. AUDIO IN Jack

Connect audio cable coming from the audio out jack of a camcorder, another VCR, or an audio source here.

59. AC Power Cord

Connect to a standard AC outlet to supply power to the DVD/VCR COMBINATION UNIT.

DVD Playback only

60. COMPONENT VIDEO OUT Jacks

Connect optional component video cables here and to the component Video In jacks of a television.

61. COAXIAL Jack

Connect an optional coaxial digital audio cable here and to the Coaxial Digital Audio In jack of a decoder or audio receiver.

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62. DVD ANALOG AUDIO OUT Jacks

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment (DVD only).

63. S-VIDEO OUT Jack

Connect an optional S-Video cable here and to the S-Video In jack of a television. (DVD only)

64. VIDEO IN Jack

Connect a cable coming from the video out jack of a camcorder, another VCR, or an audio-visual source (laser disc player, video disc player, etc.) here.

LOADING THE BATTERIES

1. Open the battery compartment cover.



2. Insert two AA batteries, with each one oriented correctly.



3. Close the cover.



Notes

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

65. DVD/VCR VIDEO OUT Jack

Connect the yellow video cable (supplied) here and to the TV's Video In jack.

66. ANT-OUT (Antenna Out) Jack

Use the supplied RF coaxial cable to connect this jack to the ANTENNA IN Jack on your TV.

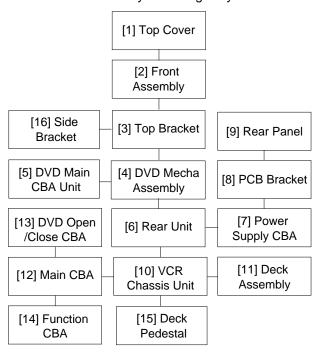
Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the player.

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CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/			REMOVAL	
ID/ LOC. No.	PART	Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[1]	Top Cover	D1	7(S-1)	
[2]	Front Assembly	D2	(S-3), *7(L-1)	1 1-1 1-2
[3]	Top Bracket	D2	4(S-2)	-
[4]	DVD Mecha Assembly	D3	3(S-4), *CN401, *CN601,*CN302	-
[5]	DVD Main CBA Unit	D4	2(S-5), *CN201, *CN301	2 2-1 2-2 2-3 3
[6]	Rear Unit	D5	5(S-6), 3(S-7), (S-7A) CN1005	-

ID/ LOC. PART No.		REMOVAL			
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note	
[7]	Power Supply CBA	D6	4(S-8)	-	
[8]	PCB Bracket	D6	3(S-9)	-	
[9]	Rear Panel	D6		-	
[10]	VCR Chassis Unit	D7	5(S-10), 4(S-11)	-	
[11]	Deck Assembly	D8	Desolder, 2(S-12)	4,5	
[12]	Main CBA	D8		-	
[13]	DVD Open/ Close CBA	D8	Desolder	-	
[14]	Function CBA	D8	Desolder	-	
[15]	Deck Pedestal	D9	7(S-13)	-	
[16]	Side Bracket	D9	(S-14)	-	
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)	

Note:

- (1): Identification (location) No. of parts in the figures
- (2): Name of the part
- (3): Figure Number for reference
- (4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

P=Spring, L=Locking Tab, S=Screw,

CN=Connector

*=Unhook, Unlock, Release, Unplug, or Desolder e.g. 2(S-2) = two Screws (S-2),

2(L-2) = two Locking Tabs (L-2)

(5): Refer to "Reference Notes."

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Reference Notes

CAUTION 1: Locking Tabs (L-1) are fragile. Be careful not to break them.

- 1-1. Remove Screw (S-3).
- 1-2. Release seven Locking Tabs (L-1) (to do this, first release five Locking Tabs (A) at the side and top, and then release two Locking Tabs (B) at the bottom.)

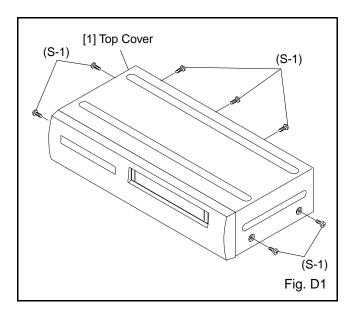
CAUTION 2: Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc., during unpacking or repair work.

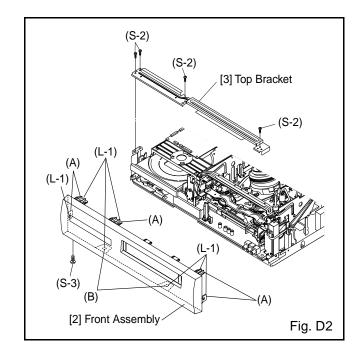
To avoid damage of pickup follow next procedures.

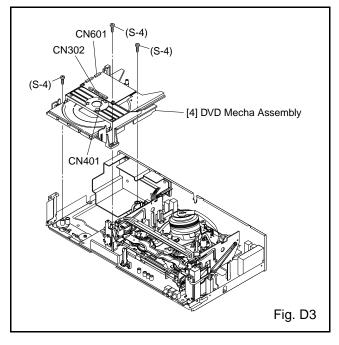
- 2-1. Slide the pickup unit as shown in Fig. D4.
- 2-2. Short the three short lands of FPC cable with solder before removing the FFC cable (CN301) from it. If you disconnect the FFC cable (CN301), the laser diode of pickup will be destroyed. (Fig. D4)
- 2-3. Disconnect Connector (CN201). Remove two Screws (S-5) and lift the DVD Main CBA Unit. (Fig. D4)

CAUTION 3: When reassembling, confirm the FFC cable (CN301) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. D4)

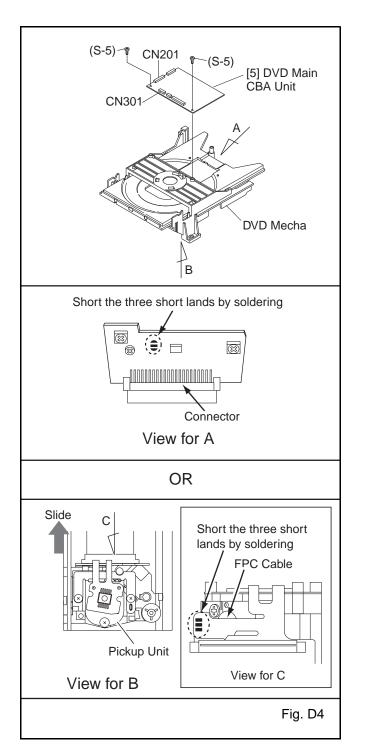
- 4. When reassembling, solder wire jumpers as shown in Fig. D8.
- 5. Before installing the Deck Assembly, be sure to place the pin of LD-SW on Main CBA as shown in Fig. D8. Then, install the Deck Assembly while aligning the hole of Cam Gear with the pin of LD-SW, the shaft of Cam Gear with the hole of LD-SW as shown in Fig. D8.

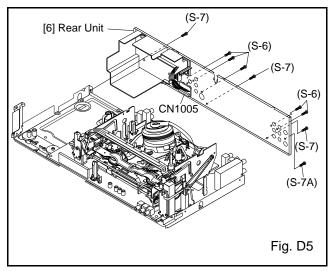


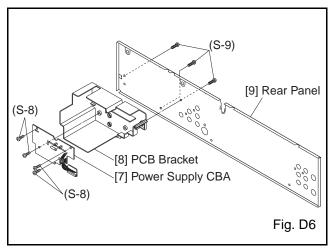


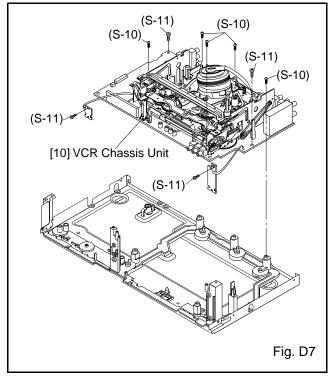


1-7-2 H94X1DC

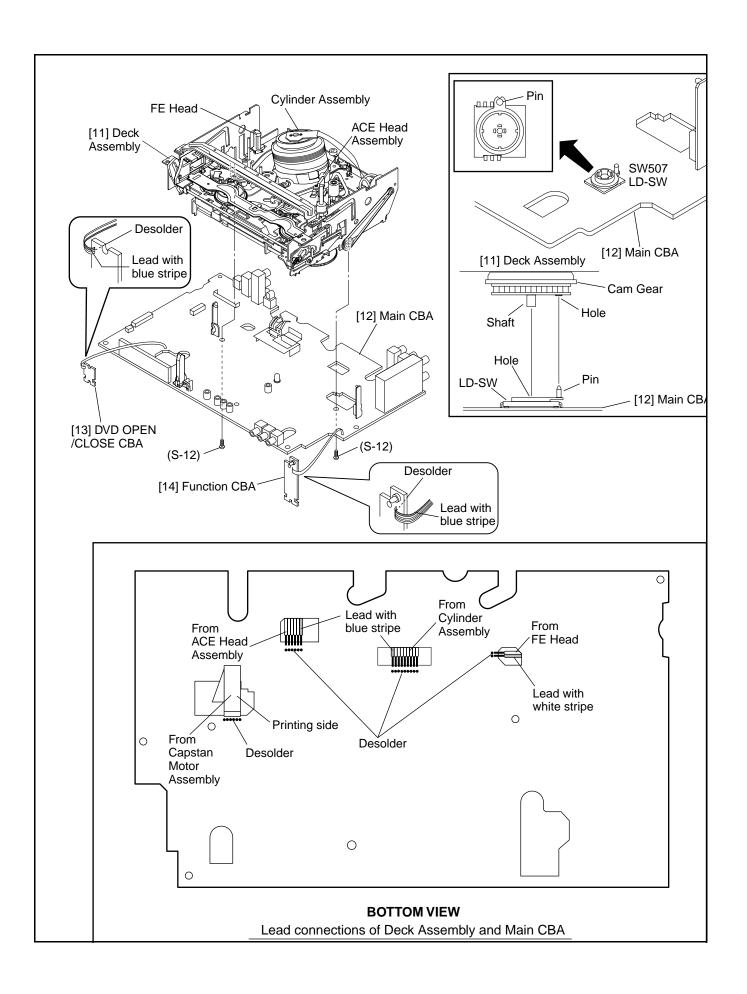


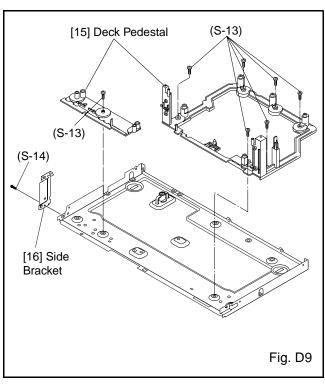


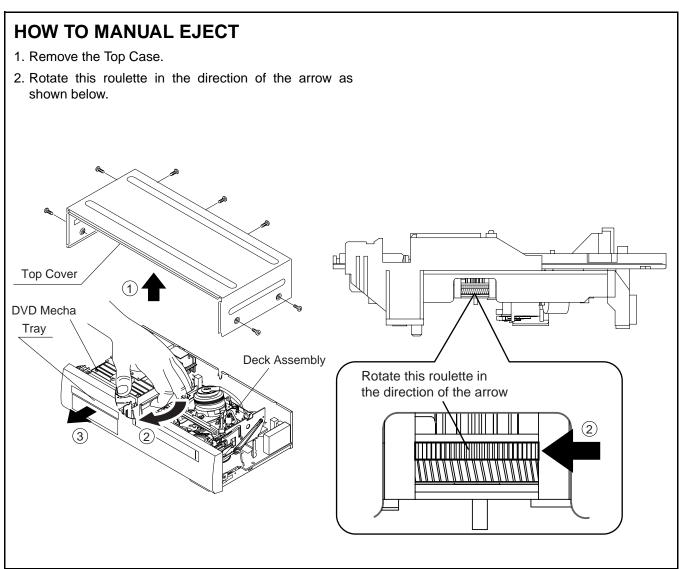




1-7-3 H94X1DC







ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: "CBA" is an abbreviation for "Circuit Board Assembly."

NOTE:

- 1.Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
- 2.To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press either "CHANNEL ▼" or "CHANNEL ▲" button on the front panel first, then the "PLAY" button on the front panel.

Test Equipment Required

1.Oscilloscope: Dual-trace with 10:1 probe,

V-Range: 0.001~50V/Div., F-Range: DC~AC-20MHz 2.Alignment Tape (FL8A)

Head Switching Position Adjustment

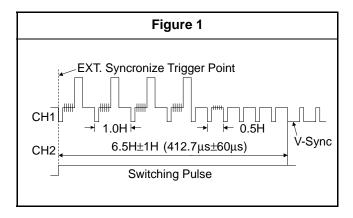
Purpose:

To determine the Head Switching point during playback.

Symptom of Misadjustment:

May cause Head Switching noise or vertical jitter in the picture.

Test point	Adj.Point	Mode	Input	
TP751(V-OUT) TP302(RF-SW) GND	VR501 (Switching Point) (MAIN CBA)	PLAY (SP)		
Таре	Measurement Equipment	Sp	ec.	
FL8A	Oscilloscope		l±1H s±60μs)	
Connections of Measurement Equipment				
Main CBA	P751 GND P302	CH1	oscope CH2 Trig. (+)	



Reference Notes:

Playback the Alignment tape and adjust VR501 so that the V-sync front edge of the CH1 video output waveform is at the $6.5H(412.7\mu s)$ delayed position from the rising edge of the CH2 head switching pulse waveform.

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FIRMWARE RENEWAL MODE

- 1. Turn the power on and remove the disc on the tray.
- To put the DVD player into version up mode, press [9], [8], [7], [6], and [SEARCH MODE] buttons on the remote control unit in that order. The tray will open automatically.

Fig. a appears on the screen and Fig. b appears on the VFD.

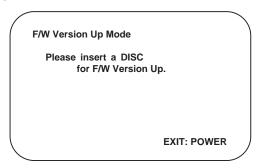


Fig. a Version Up Mode Screen

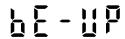


Fig. b VFD in Version Up Mode

The DVD player can also enter the version up mode with the tray open. In this case, Fig. a will be shown on the screen while the tray is open.

- 3. Load the disc for version up.
- 4. The DVD player enters the F/W version up mode automatically. Fig. c appears on the screen and Fig. d appears on the VFD.

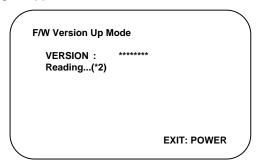


Fig. c Programming Mode Screen

1223

Fig. d VFD in Programming Mode (Example)

The appearance shown in (*2) of Fig. c is described as follows:

No.	Appearance	State
1	Reading	Sending files into the memory
2	Erasing	Erasing previous version data
3	Programming	Writing new version data

After programming is finished, the tray opens automatically. Fig. e appears on the screen and the checksum in (*3) of Fig. e appears on the VFD. (Fig. f)

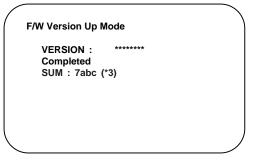


Fig. e Completed Program Mode Screen



Fig. f VFD upon Finishing the Programming Mode (Example)

At this time, no buttons are available.

- 6. Unplug the AC cord from the AC outlet. Then plug it again.
- 7. Turn the power on by pressing the power button and the tray will close.
- 8. Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.

Fig. g appears on the screen.

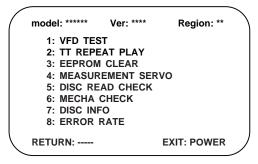
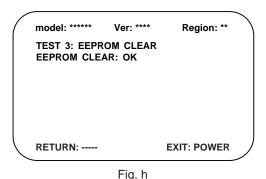


Fig. g

9. Press [3] button on the remote control unit. Fig. h appears on the screen.



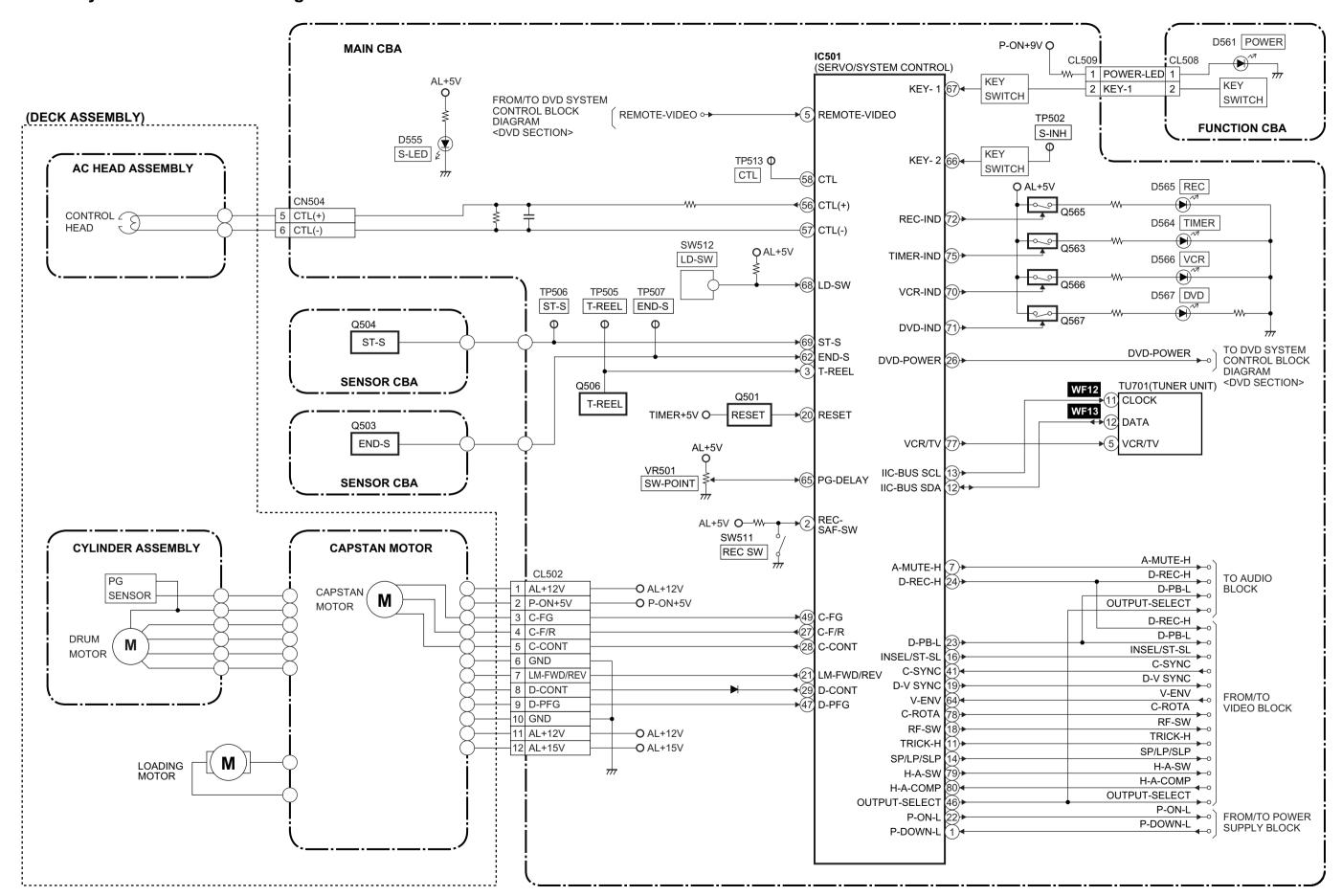
1 lg. 11

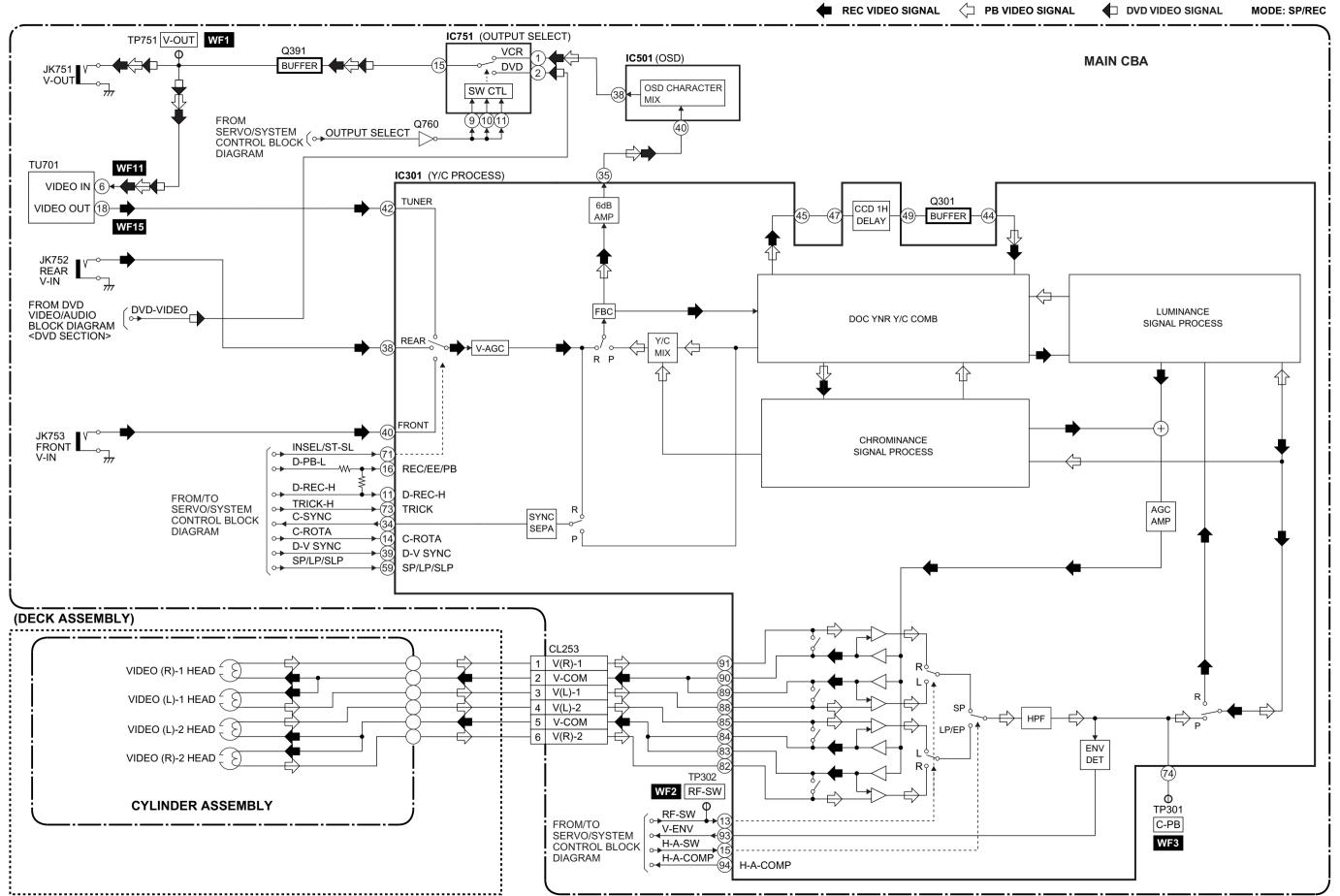
10. To finish this mode, press [POWER] button.

1-9-1 H9400TEST

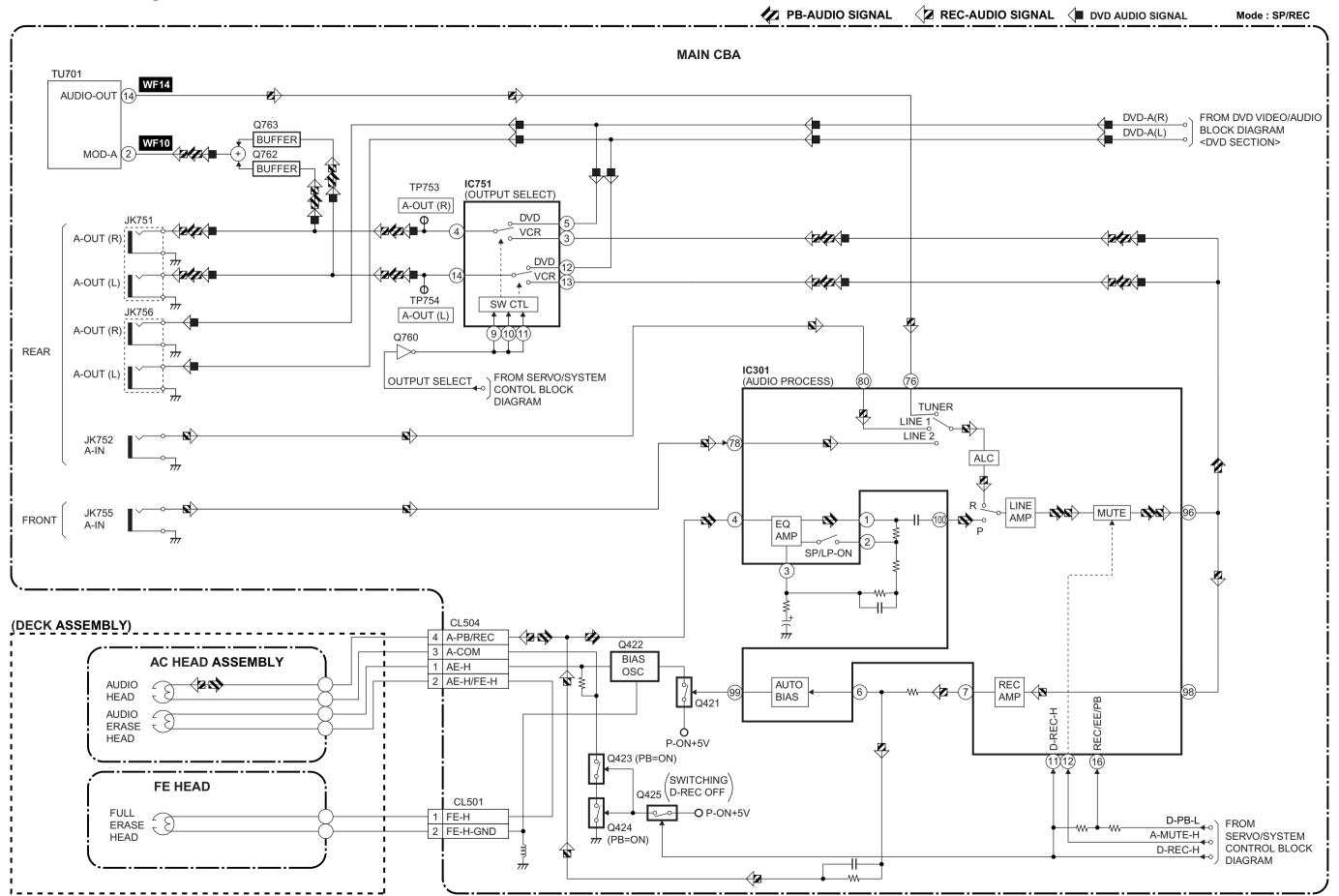
BLOCK DIAGRAMS < VCR SECTION>

Servo/System Control Block Diagram





1-10-4



1-10-6

Power Supply Block Diagram

NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

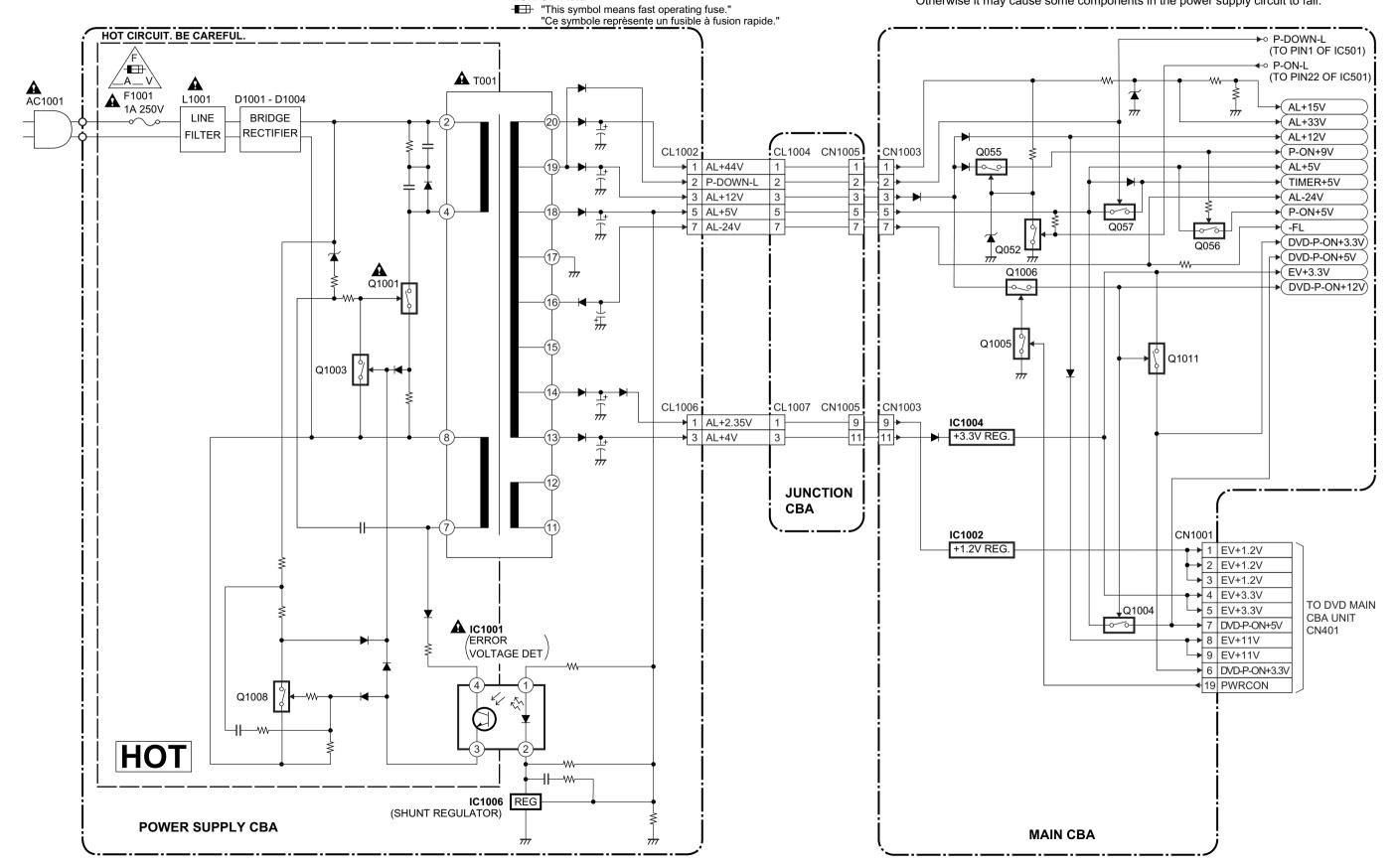


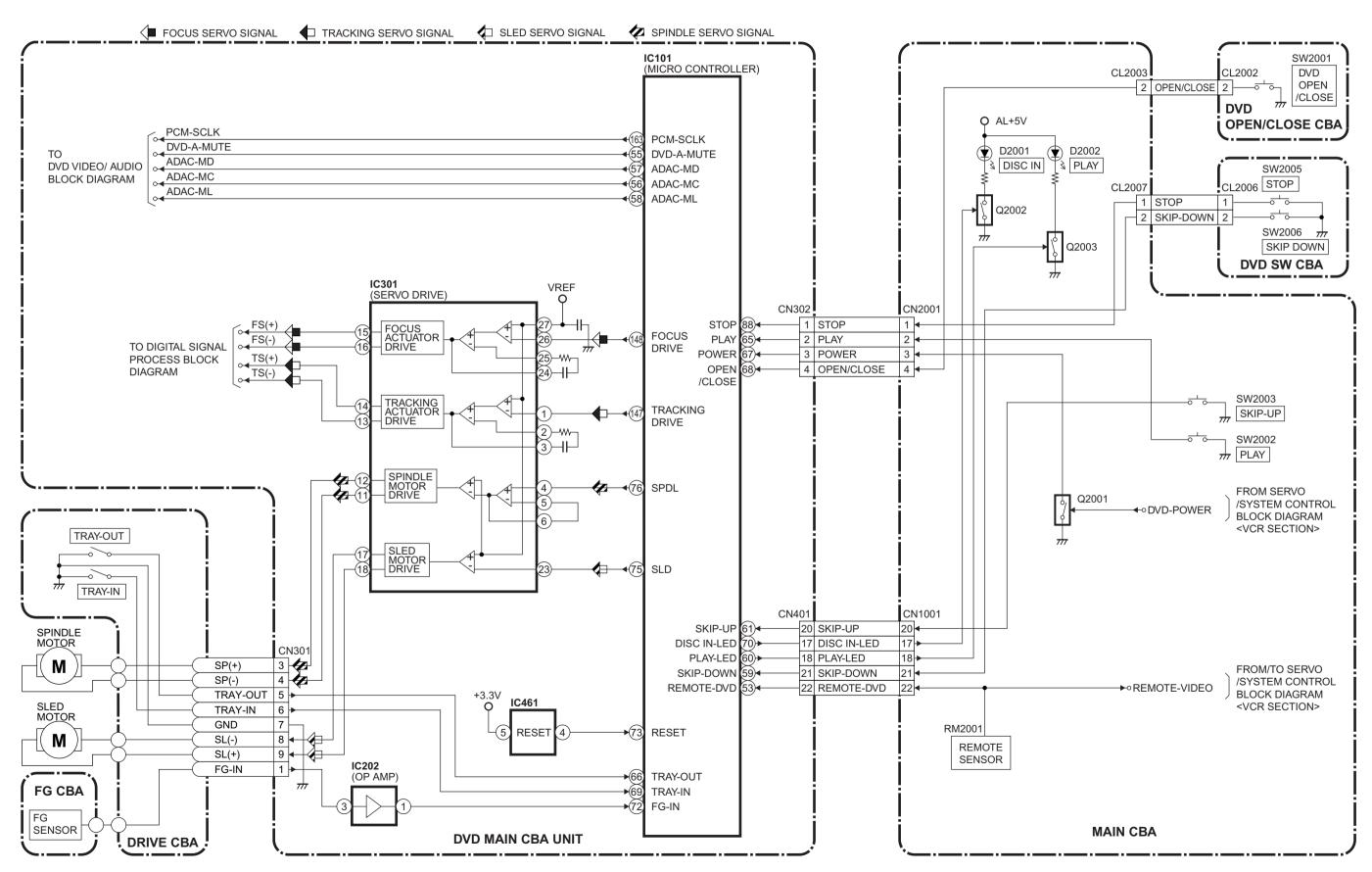
CAUTION

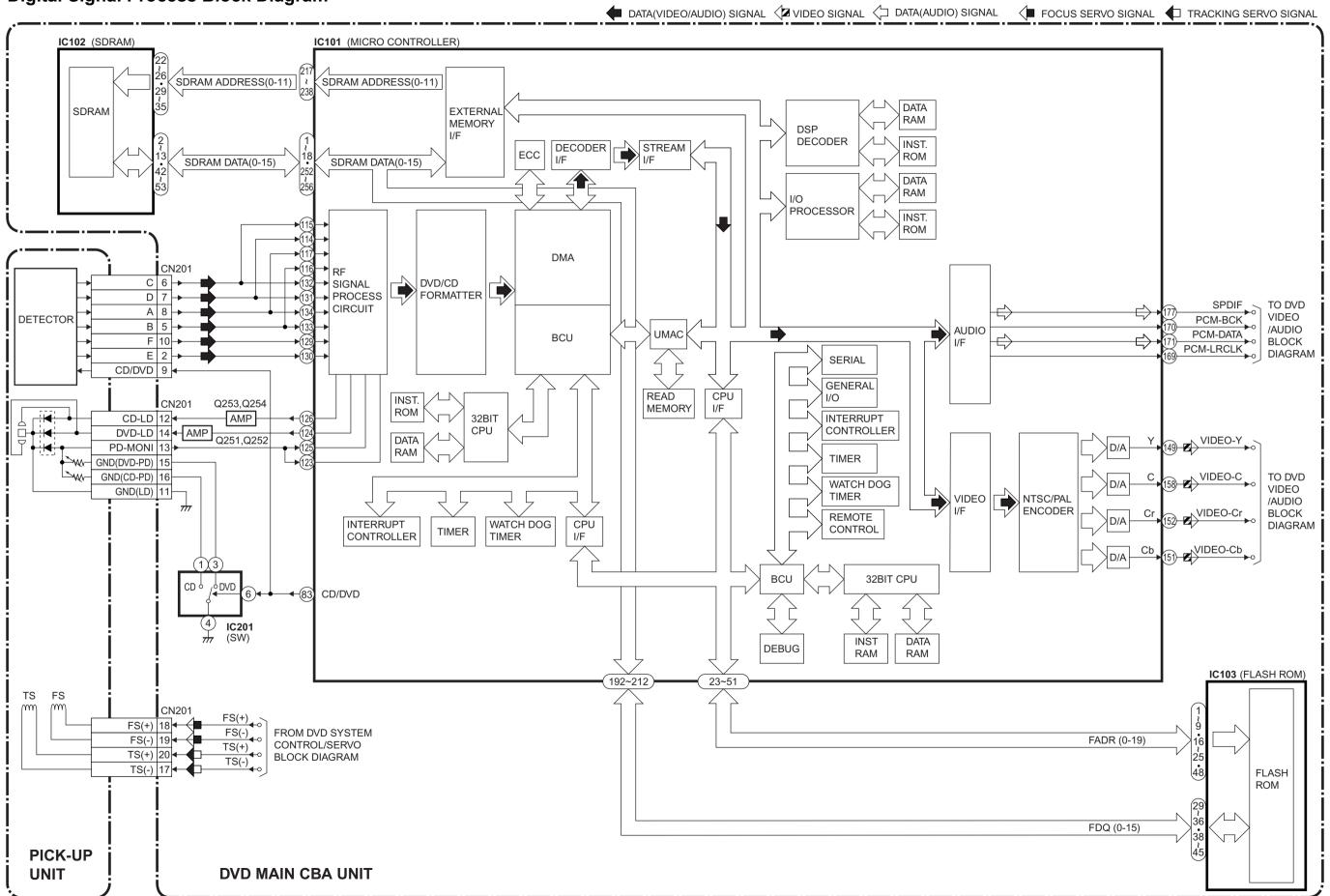
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MEMO TYPE. RISK OF FIRE-REPLACE FUSE AS MARKED.

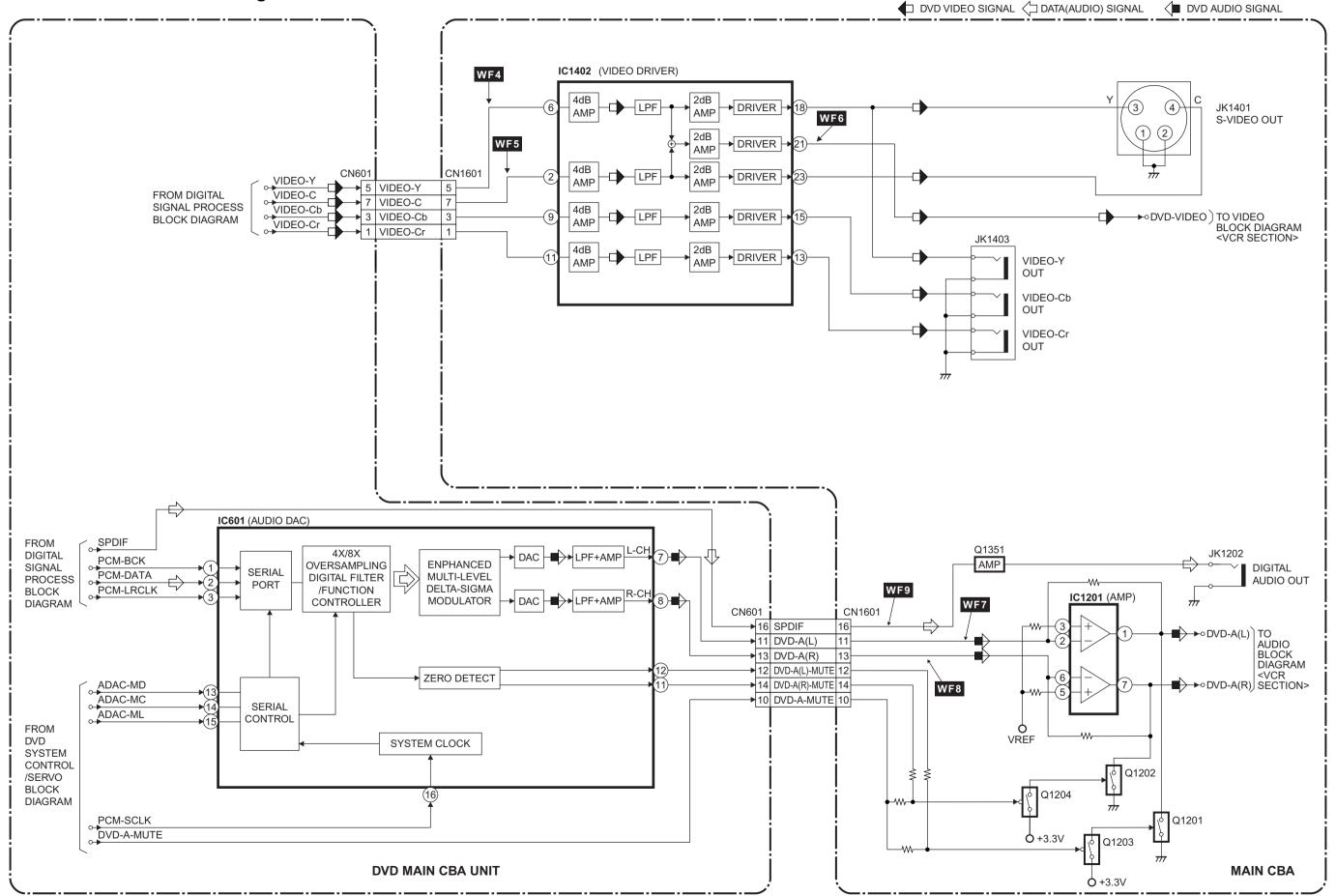
CAUTION!

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.









SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " A " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

- Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- 2. All resistance values are indicated in ohms (K=10³, M=10⁶).
- 3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
- 4. All capacitance values are indicated in μ F (P=10⁻⁶ μ F).
- 5. All voltages are DC voltages unless otherwise specified.

1-11-1 H9400SC

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:



FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MEMO TYPE.

RISK OF FIRE-REPLACE FUSE AS MARKED.



This symbol means fast operating fuse. Ce symbole reprèsente un fusible à fusion rapide.

2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

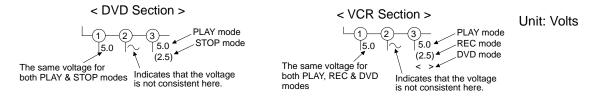
- (1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- (2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Wire Connectors

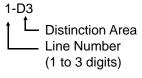
- (1) Prefix symbol "CN" means "connector" (can disconnect and reconnect).
- (2) Prefix symbol "CL" means "wire-solder holes of the PCB" (wire is soldered directly).

5. Mode: SP/REC

6. Voltage indications for PLAY and REC modes on the schematics are as shown below:

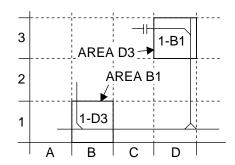


7. How to read converged lines



Examples:

- 1. "1-D3" means that line number "1" goes to area "D3".
- 2. "1-B1" means that line number "1" goes to area "B1".



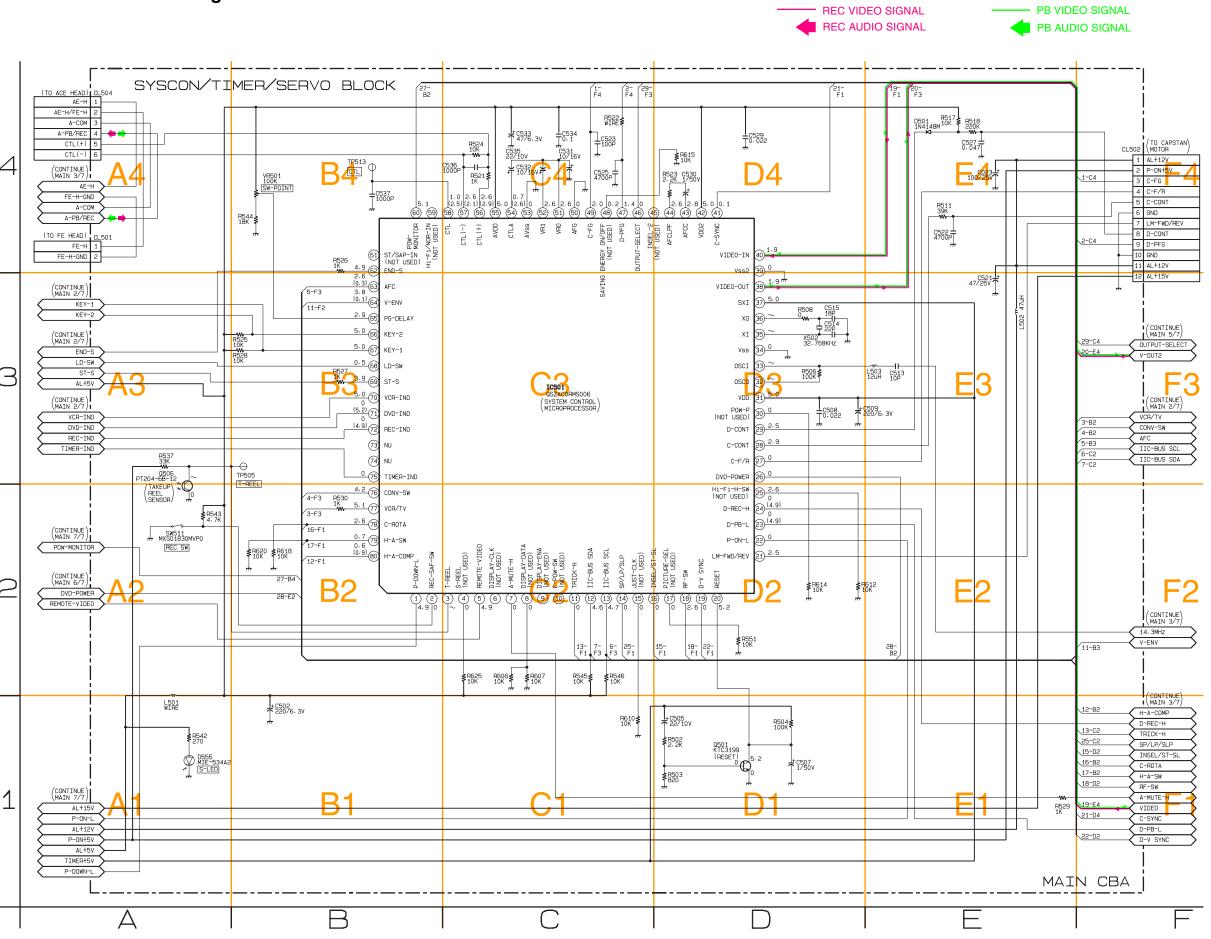
8. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

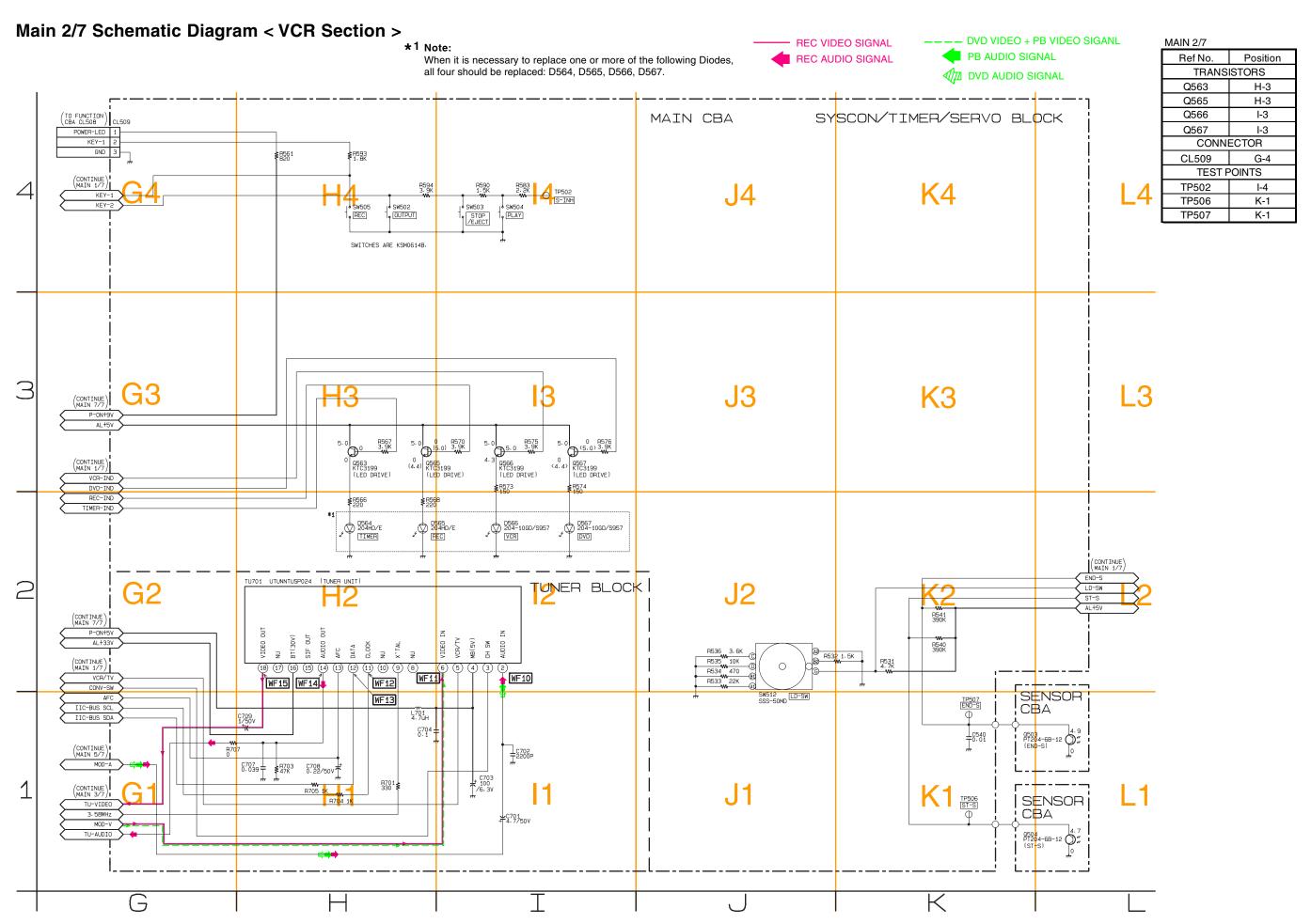
: Used to indicate a test point with no test pin.

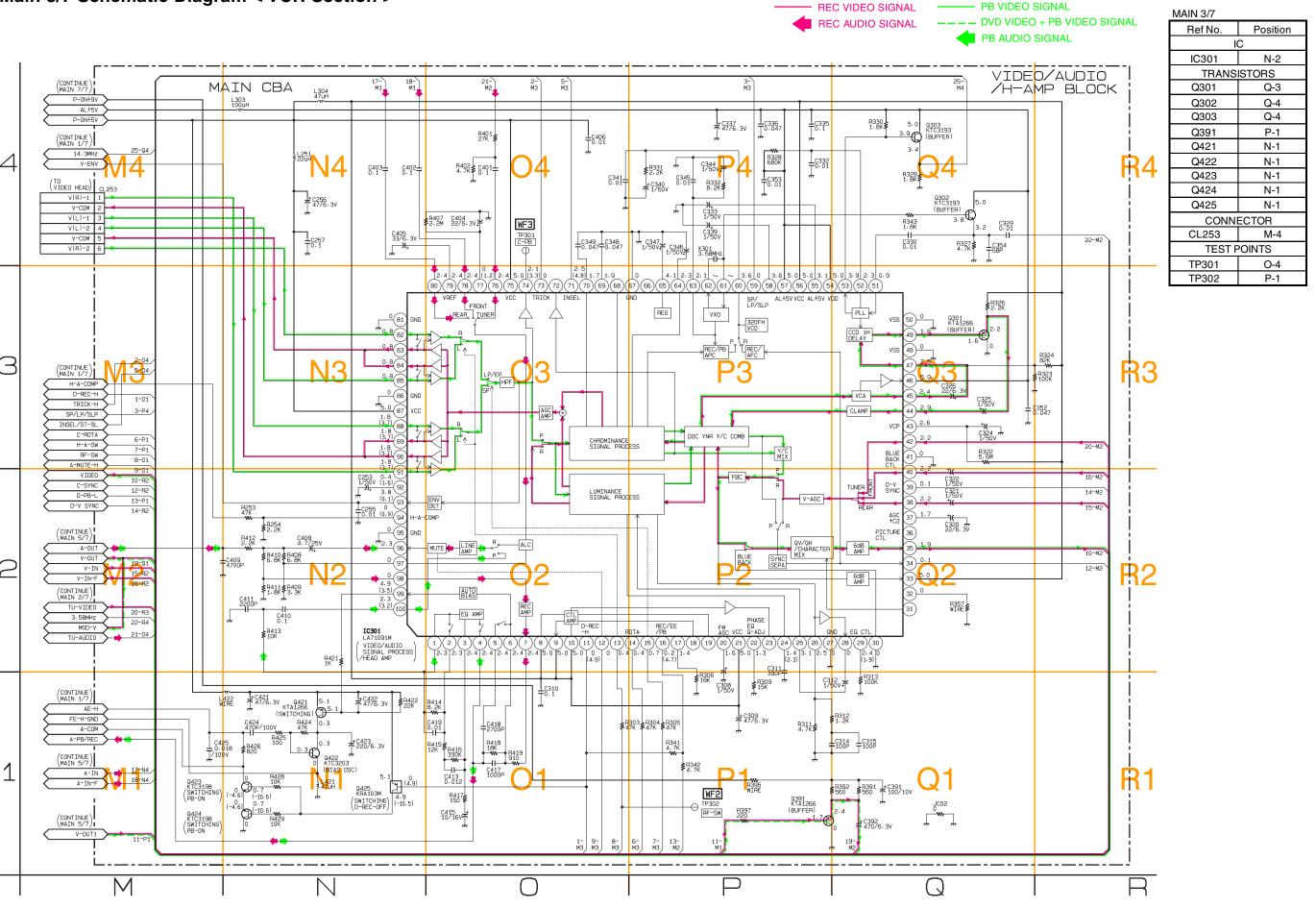
: Used to indicate a test point with a test pin.

1-11-2 SC 09



MAIN 1/7 Ref No. Position IC501 C-3 TRANSISTORS Q501 Q506 A-3 CONNECTORS CL501 A-4 CL502 F-4 CL504 A-4 VARIABLE RESISTOR VR501 TEST POINTS TP505 TP513 B-4

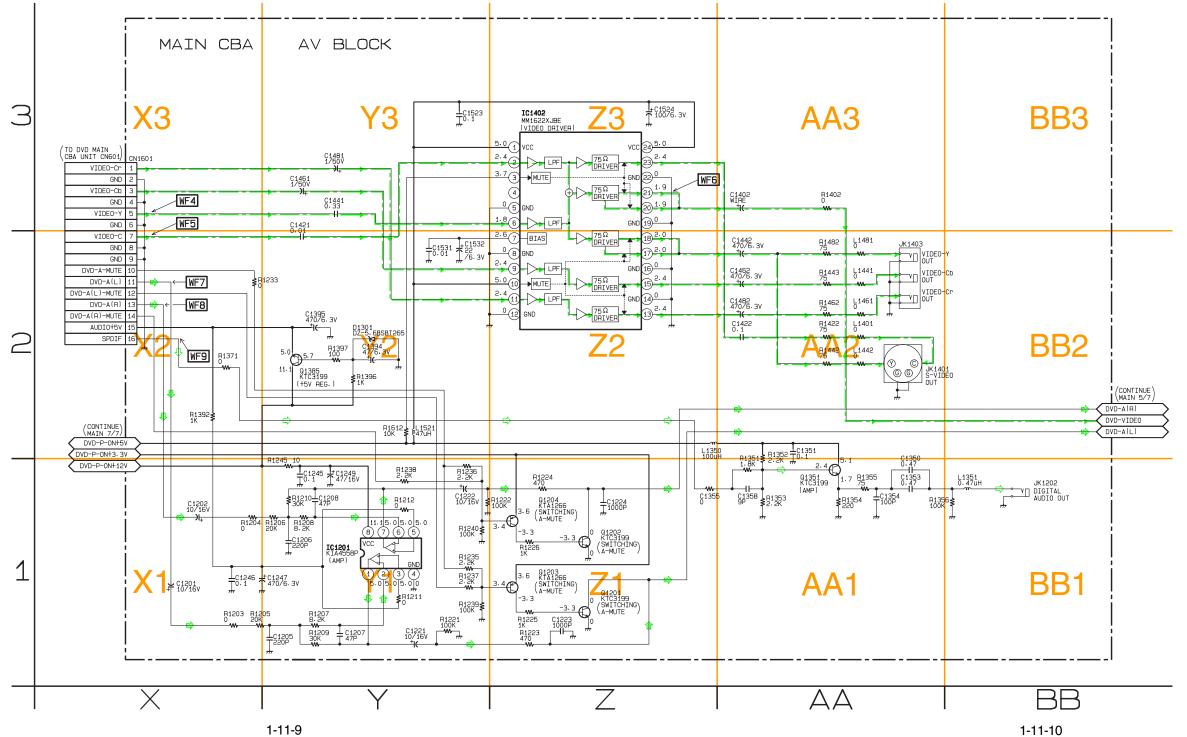


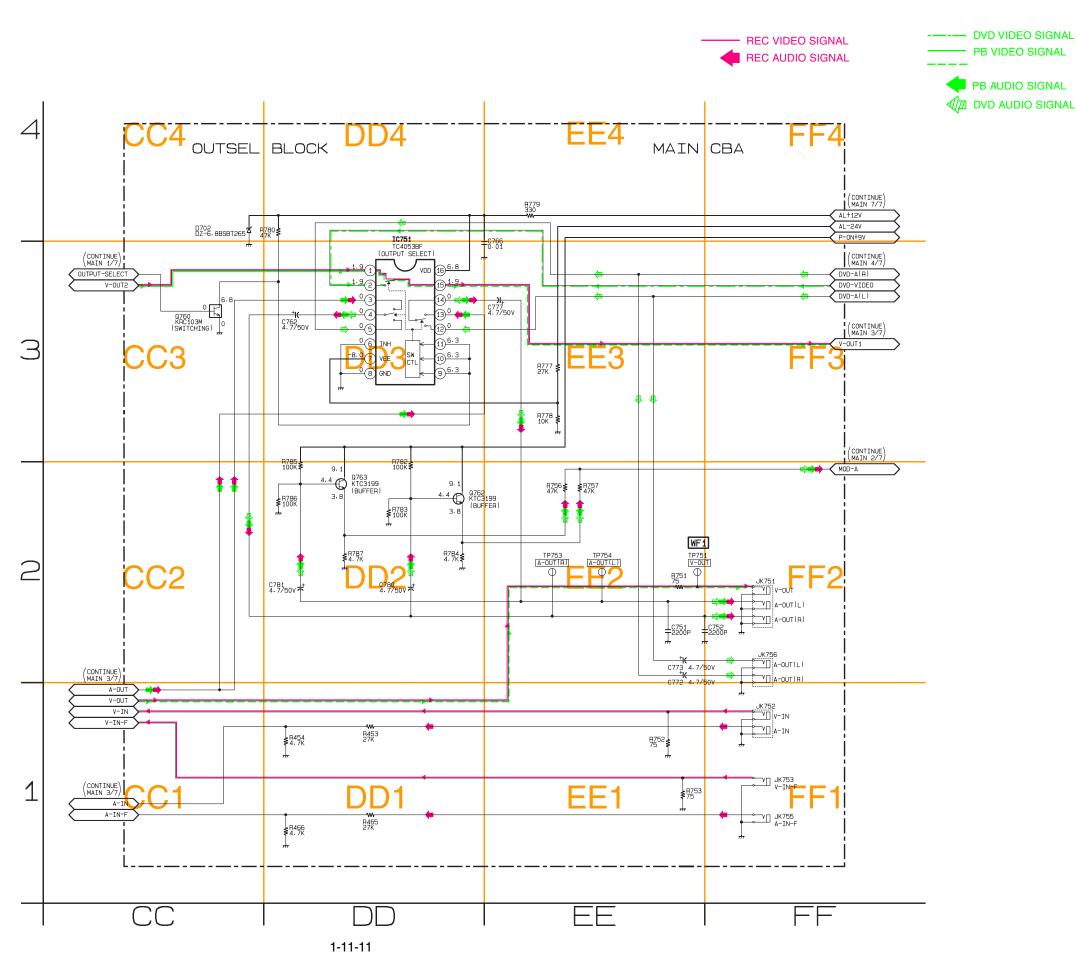


---- DVD VIDEO SIGNAL DVD AUDIO SIGNAL 🗘 DATA (AUDIO) SIGNAL

MAIN 4/7

Ref No.	Position			
IC	S			
IC1201	Y-1			
IC1402	Z-3			
TRANS	ISTORS			
Q1201	Z-1			
Q1202	Z-1			
Q1203	Z-1			
Q1204	Z-1			
Q1351	AA-1			
Q1385	Y-2			
CONNI	ECTOR			
CN1601	X-3			
	IC1201 IC1402 TRANS Q1201 Q1202 Q1203 Q1204 Q1351 Q1385 CONNI			



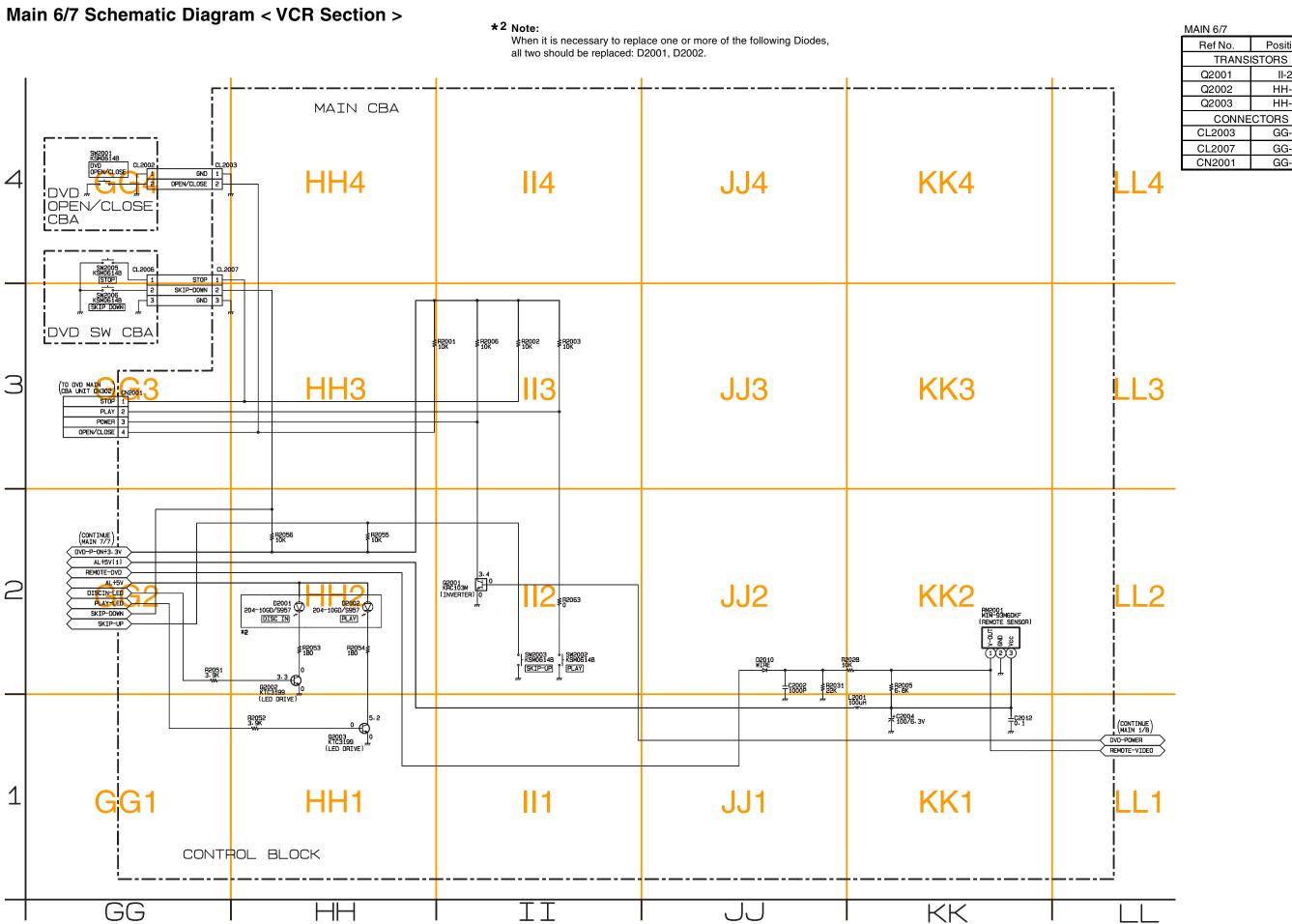


MAIN 5/7

IVIAIIN 3/1	
Ref No.	Position
10	C
IC751	DD-3
TRANS	ISTORS
Q760	CC-3
Q762	DD-2
Q763	DD-2
TEST F	POINTS
TP751	EE-2
TP753	EE-2
TP754	EE-2

1-11-12 H94X1SCM5

1-11-13



Position

II-2

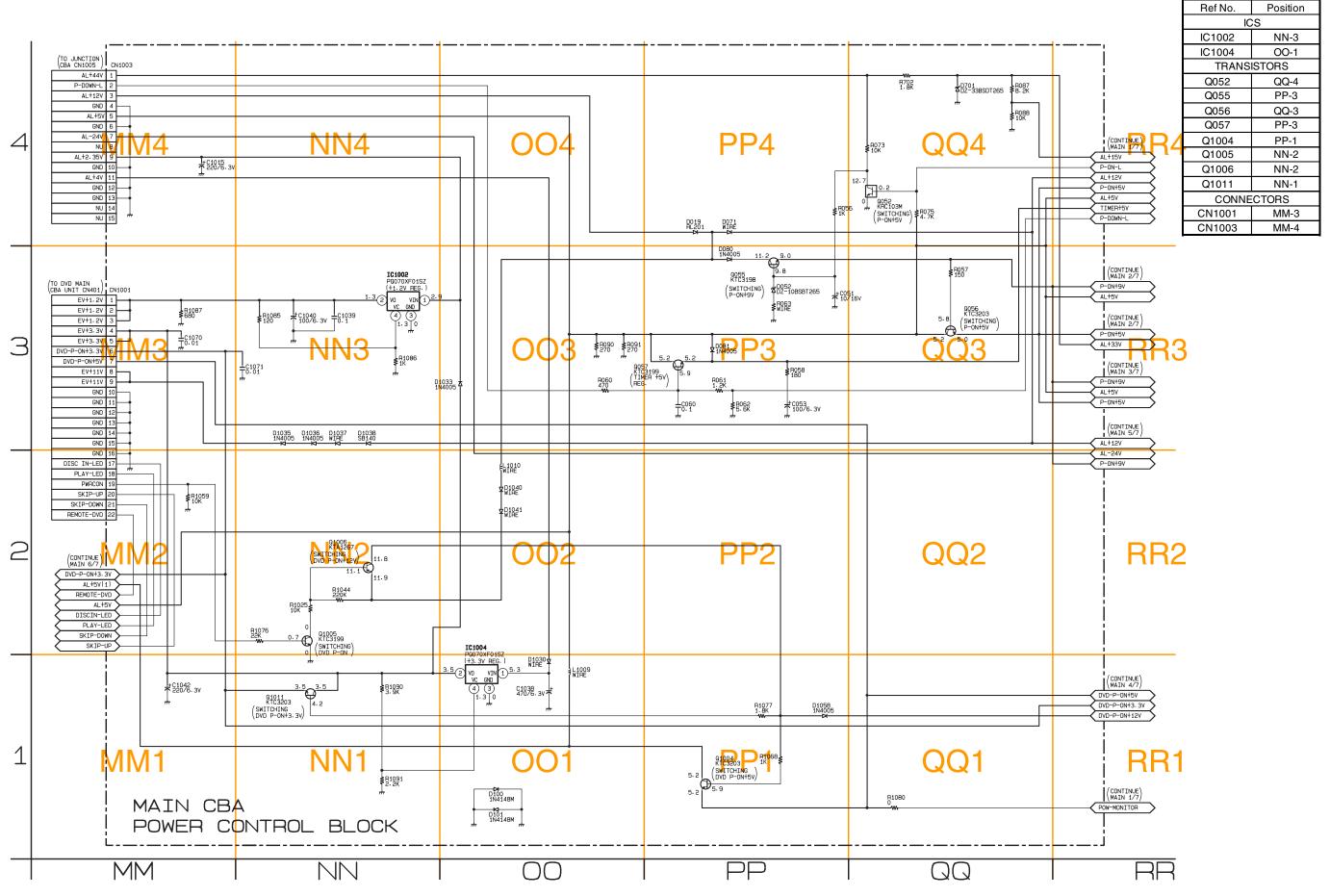
HH-2

HH-1

GG-4

GG-4

GG-3



MAIN 7/7

Power Supply Schematic Diagram < VCR Section >

CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES

D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE. RISK OF FIRE-REPLACE FUSE AS MARKED.

"This symbol means fast operating fuse."

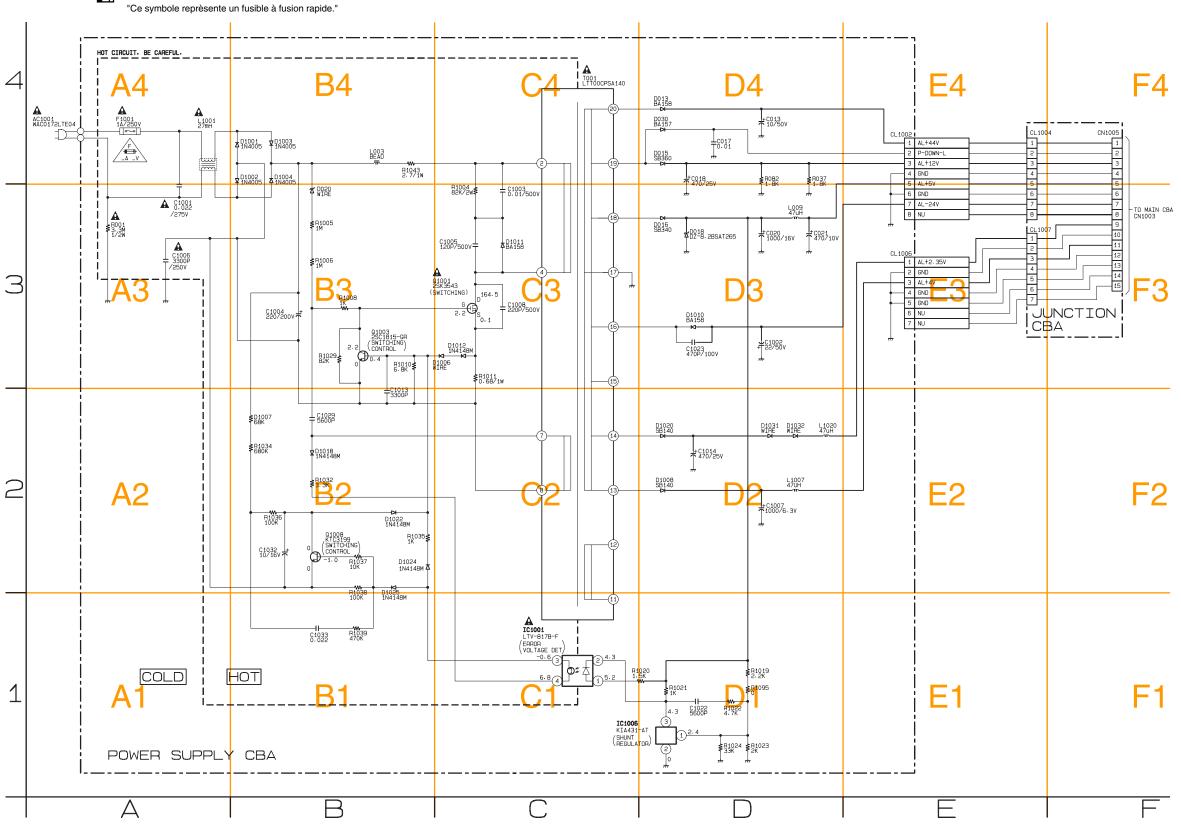
CAUTION!

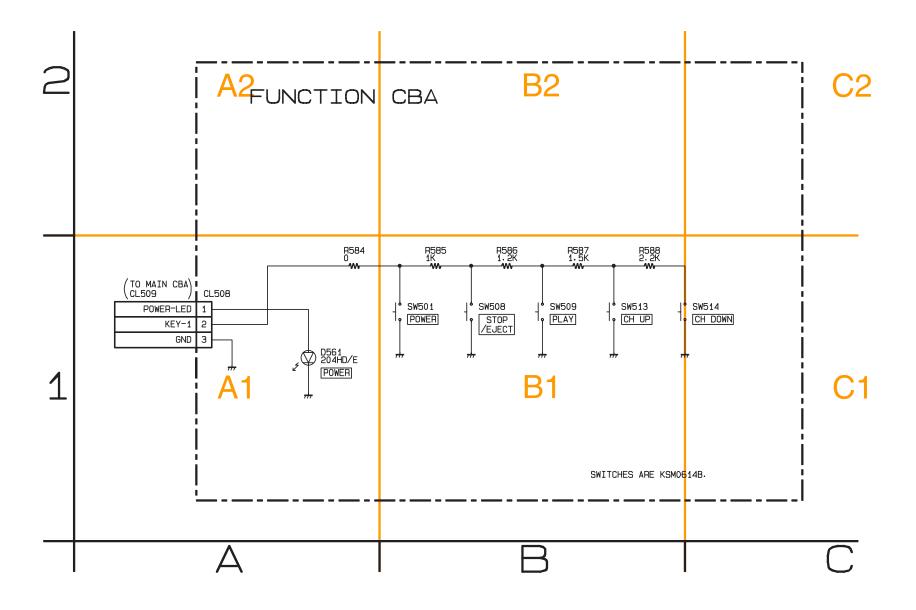
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

NOTE:

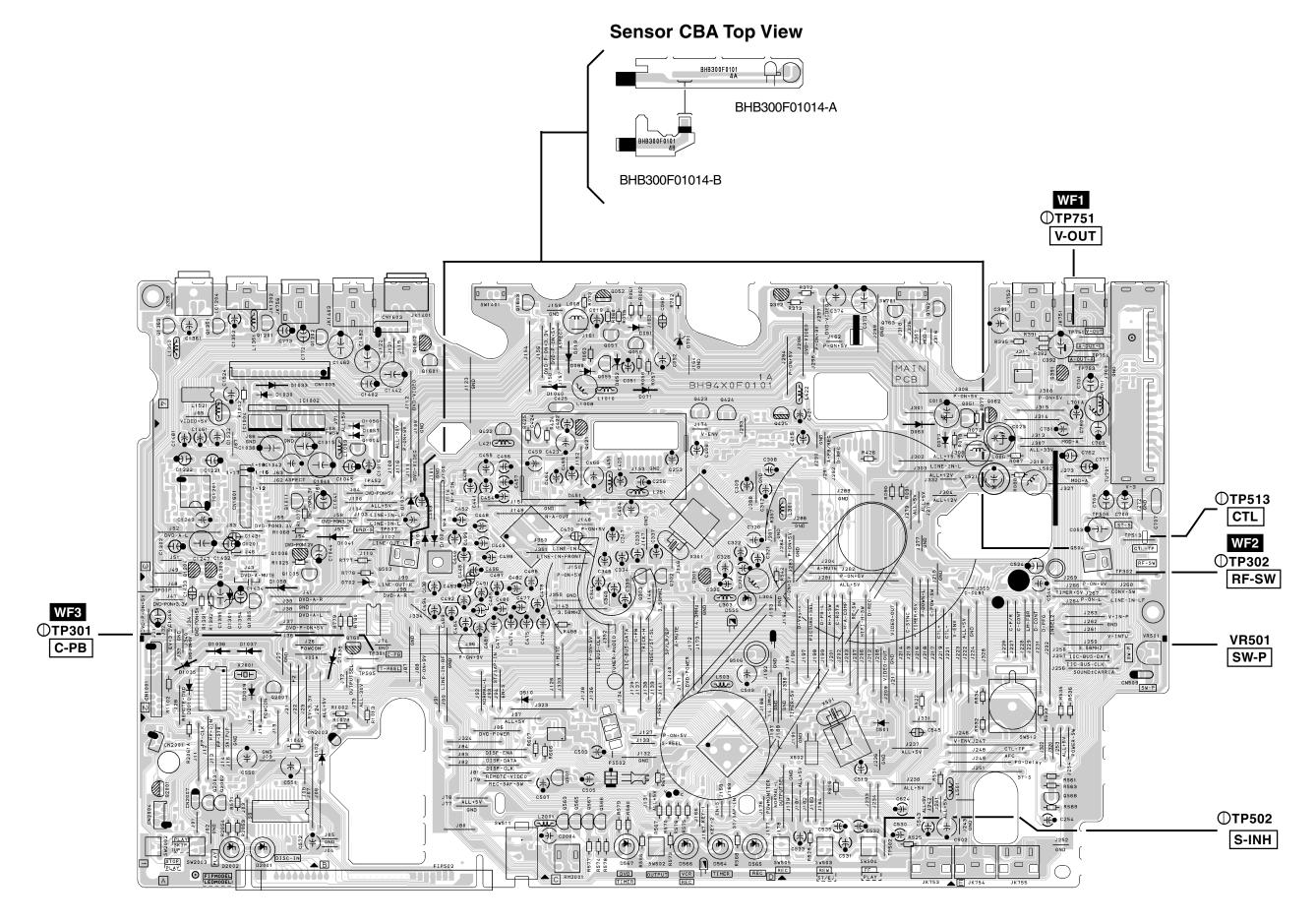
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

Power Supply Ref No. Position ICS IC1001 C-1 IC1006 D-1 TRANSISTORS Q1001 C-3 Q1003 B-3 Q1008 B-2 CONNECTORS CL1002 E-4 CL1006 E-3



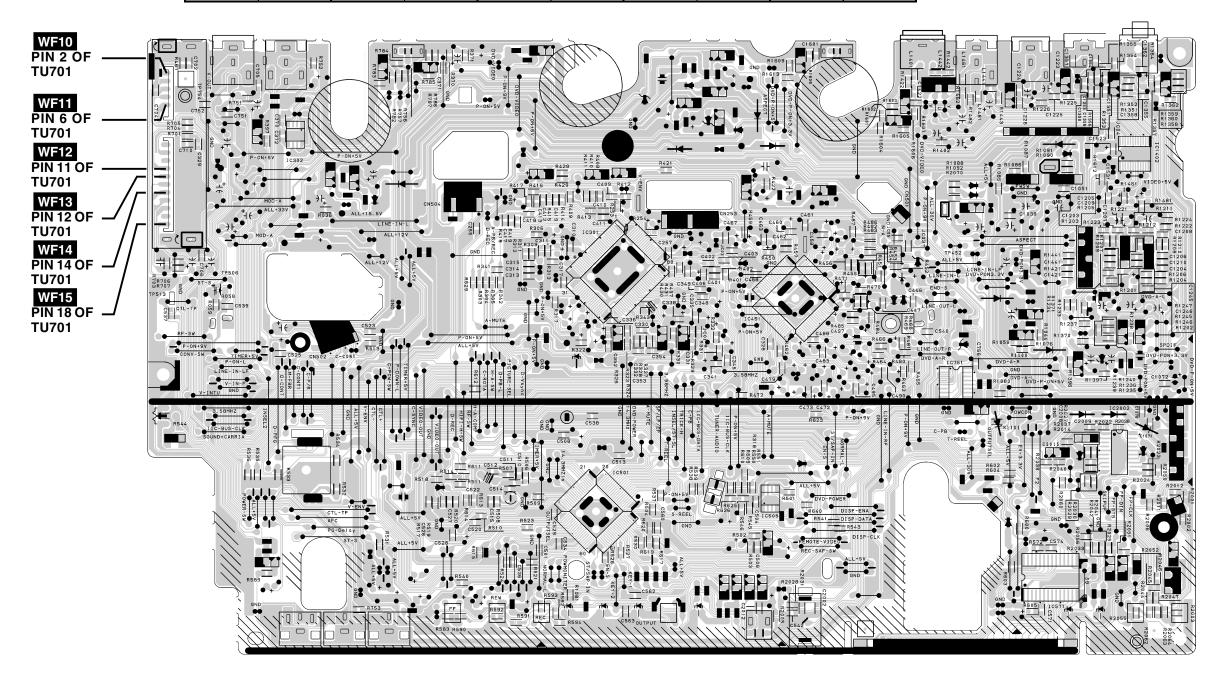


1-11-19 1-11-20 H94X1SCF

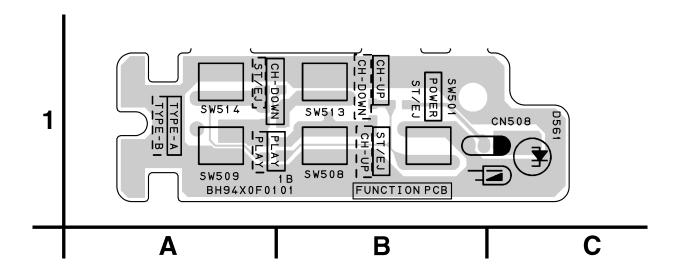


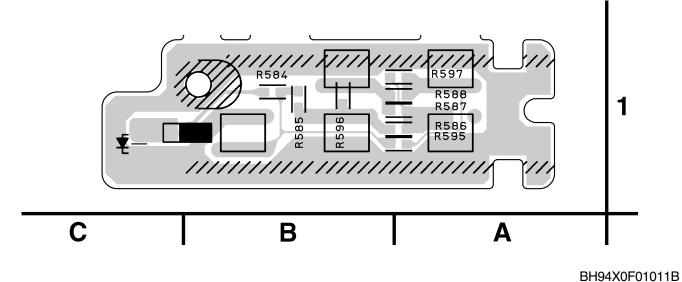
Main CBA Bottom View

MAIN CBA											
Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
IC	CS	TRANS	ISTORS	TRANS	ISTORS	TRANS	ISTORS	CONNE	CTORS	TEST POINTS	
IC301	C-3	Q057	C-4	Q565	C-1	Q1204	A-2	CL2007	A-1	TP506	E-3
IC451	C-3	Q301	C-2	Q566	C-1	Q1351	A-4	CN1001	A-2	TP507	B-3
IC501	C-2	Q302	C-2	Q567	C-1	Q1385	A-2	CN1003	A-4	TP513	E-3
IC571	A-1	Q303	C-2	Q760	B-2	Q2001	A-1	CN1601	A-3	TP751	E-4
IC751	B-2	Q391	E-4	Q762	D-4	Q2002	A-1	CN2001	A-1	TP753	E-4
IC1002	A-4	Q421	C-3	Q763	D-4	Q2003	A-1	VARIABLE I	RESISTORS	TP754	E-4
IC1004	A-3	Q422	B-3	Q1004	B-3	CONNE	CTORS	VR501	E-2		
IC1201	A-3	Q423	C-4	Q1005	A-3	CL253	C-3	TEST F	POINTS		
IC1402	A-4	Q424	C-4	Q1006	A-3	CL501	B-3	TP301	B-2		
TRANS	ISTORS	Q425	C-4	Q1011	A-3	CL502	E-3	TP302	E-3		
Q052	C-4	Q501	C-1	Q1201	A-4	CL504	D-3	TP452	B-3		
Q055	C-4	Q506	C-2	Q1202	B-4	CL509	E-3	TP502	D-1		
Q056	C-4	Q563	C-1	Q1203	A-3	CL2003	B-1	TP505	B-2		



Function CBA Bottom View



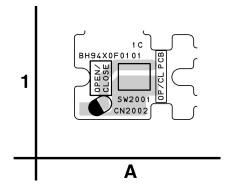


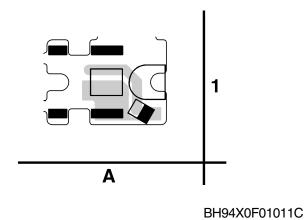
DVD OPEN/CLOSE CBA Top View

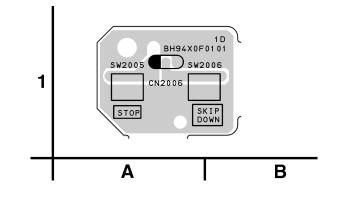
DVD OPEN/CLOSE CBA Bottom View

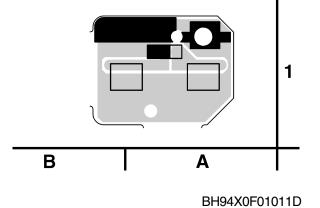
DVD SW CBA Top View

DVD SW CBA Bottom View









Power Supply CBA Top View

Power Supply CBA Bottom View

CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE. RISK OF FIRE-REPLACE FUSE AS MARKED.

"This symbol means fast operating fuse." "Ce symbole reprèsente un fusible à fusion rapide."

CAUTION!

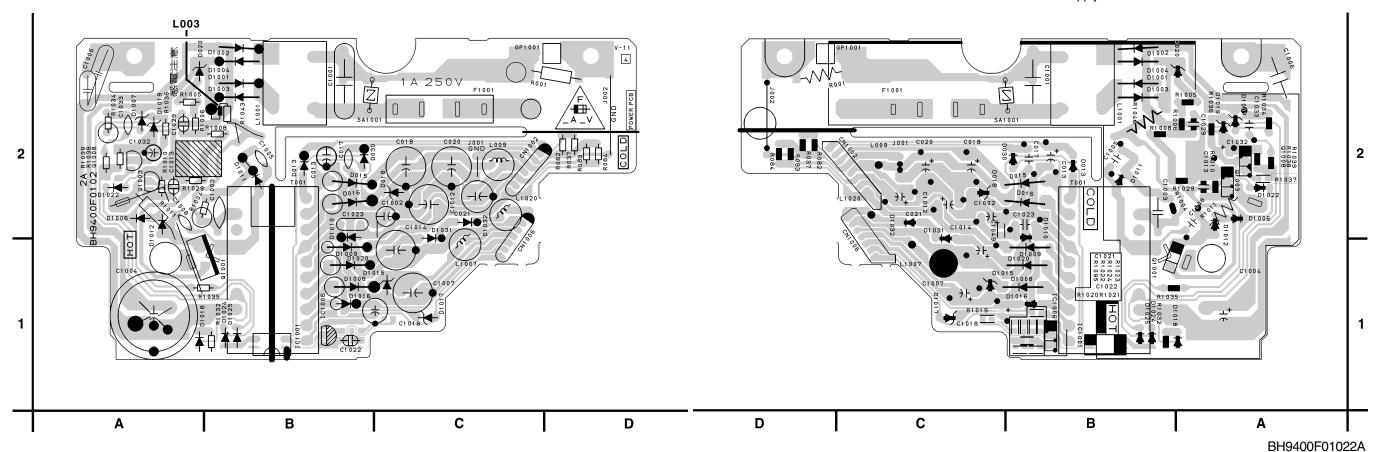
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.

NOTE:

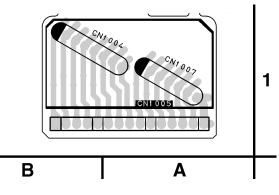
Either BH9400F01022, BH9401F01023 is used for the Power Supply CBA in this S/M.



Junction CBA Top View

Junction CBA Bottom View

RELAY PCB BH9400F0102 В



ICS IC1001 B-1 Either BH9400F01022, BH9401F01023 IC1006 B-1 is used for the Junction CBA in this S/M. **TRANSISTORS** Q1001 B-1 Q1003 A-2 Q1008 A-2 CONNECTORS

Power Supply CBA Ref No.

CL1002

CL1006

Position

C-2

C-1

BH9400F01022B

1-11-27 1-11-28

Power Supply CBA Top View

Power Supply CBA Bottom View

\triangle

CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE.
RISK OF FIRE-REPLACE FUSE AS MARKED.

"This symbol means fast operating fuse."

"Ce symbole reprèsente un fusible à fusion rapide."

CAUTION!

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

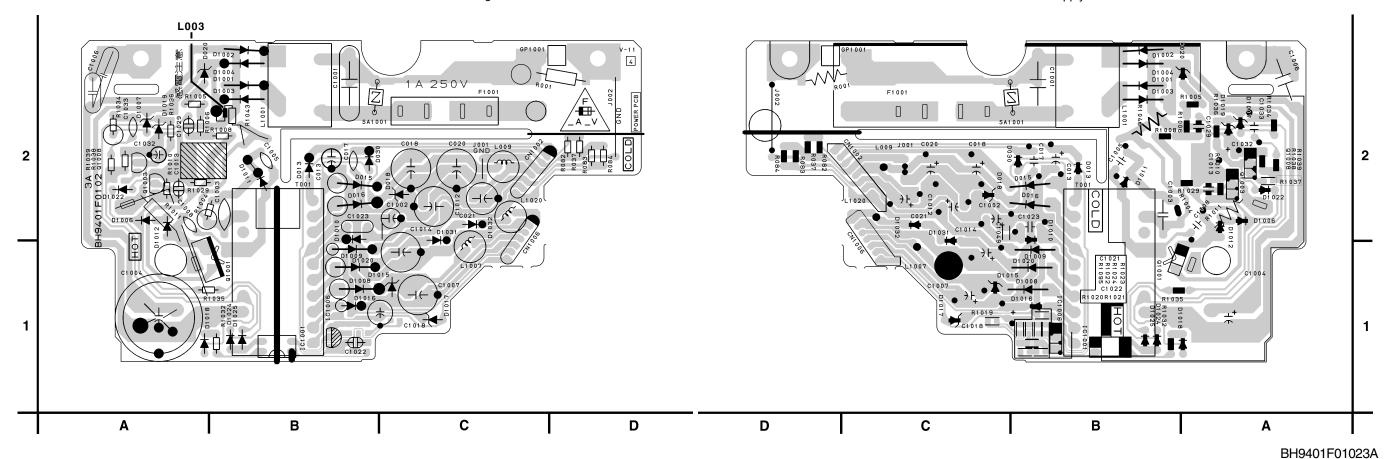
BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.

NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

NOTE:

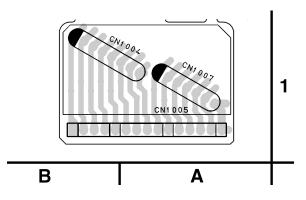
Either BH9400F01022, BH9401F01023 is used for the Power Supply CBA in this S/M.



Junction CBA Top View

Junction CBA Bottom View

1 BH9401F0102 A B



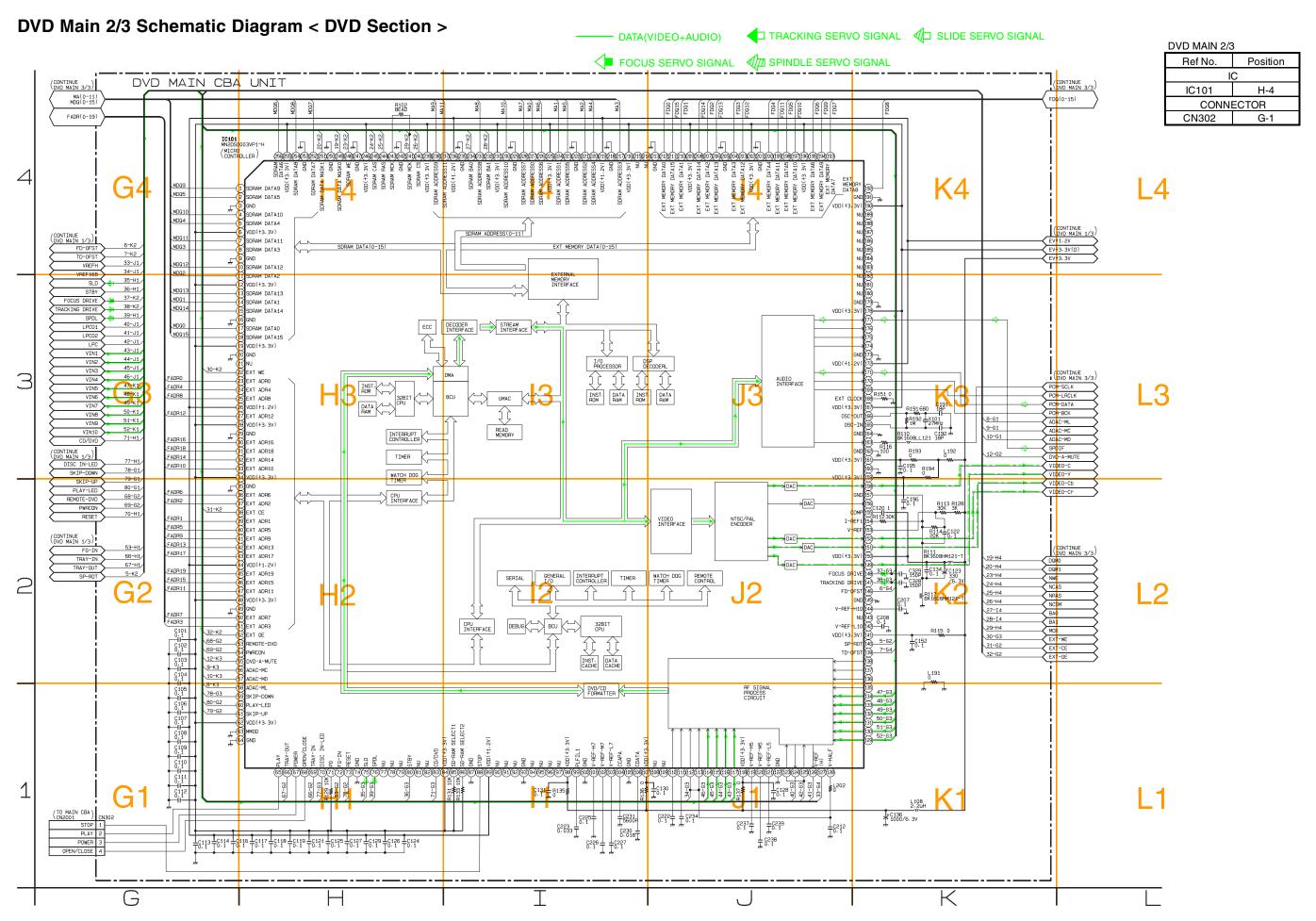
NOTE: Either BH9400F01022, BH9401F01023 is used for the Junction CBA in this S/M.

Power Supply CBA						
Ref No.	Position					
IC	S					
IC1001	B-1					
IC1006	B-1					
TRANS	ISTORS					
Q1001	B-1					
Q1003	A-2					
Q1008	A-2					
CONNECTORS						
CL1002	C-2					
CL1006	C-1					

BH9401F01023B

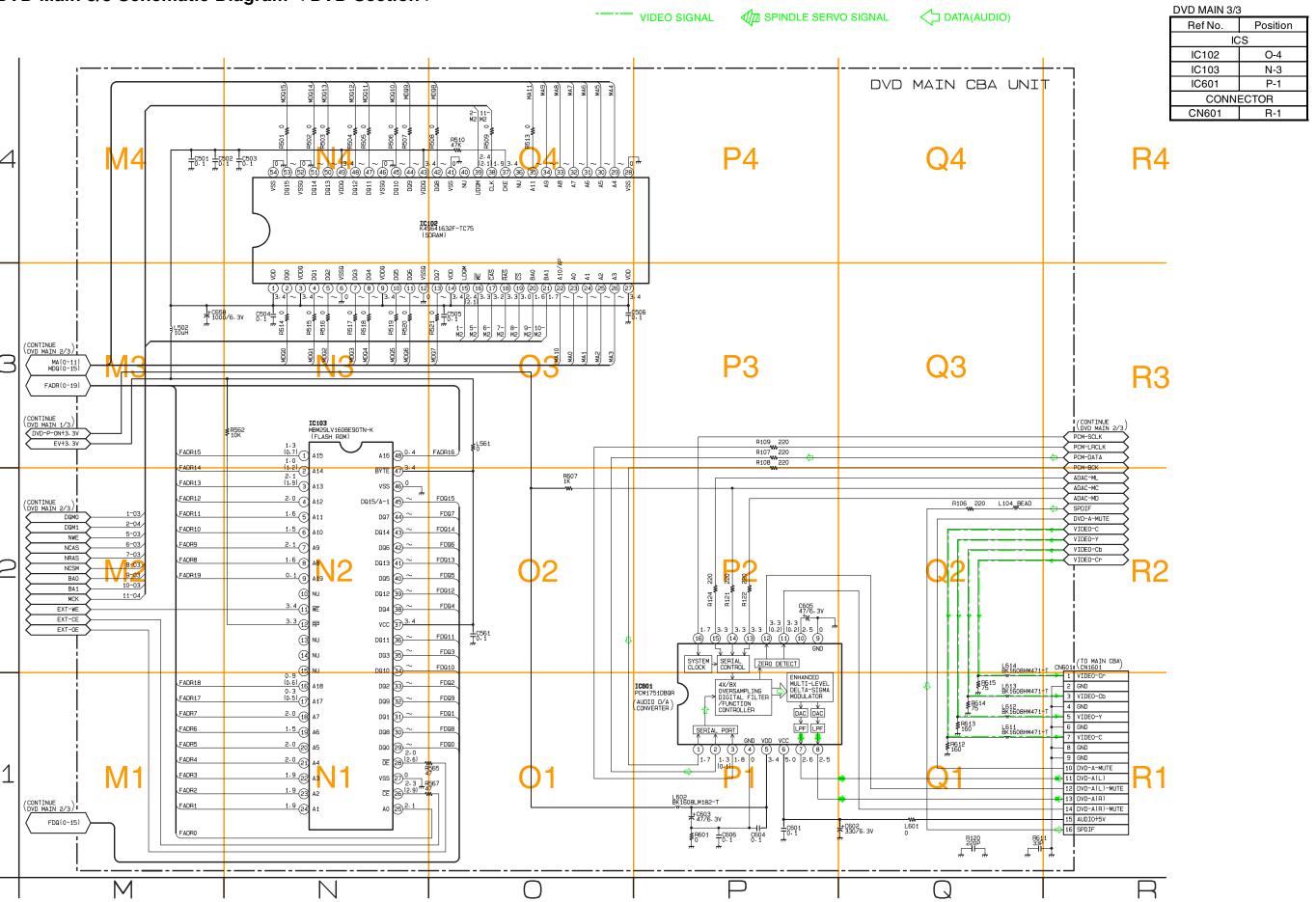
1-11-32

H94X1SCD1

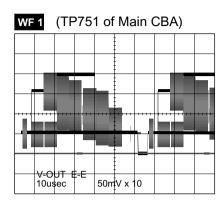


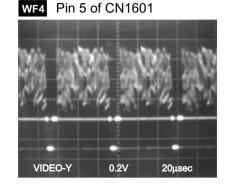
IC101 VOLTAGE CHART

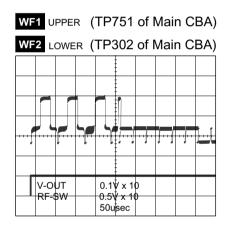
			CHAH	· •																			
PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP
1	~	٧	33	~	~	65	3.3	3.3	97			129	2.3	2.3	161	3.3	3.3	193	~	~	225	3.4	3.4
2	~	~	34	3.4	3.4	66	3.4	3.4	98	3.3	3.3	130	2.2	2.2	162	0	0	194	~	~	226	~	~
3	0	0	35	0	0	67	3.3	3.3	99	0.9	0.9	131	2.4	2.4	163	1.6	1.6	195	~	~	227	~	~
4	?	~	36	?	~	68	3.3	3.3	100	0	0	132	2.4	2.4	164	0	0	196	3.4	3.4	228	~	~
5	?	~	37	?	~	69	3.4	3.4	101	1.6	1.6	133	2.4	2.4	165	1.5	1.5	197	~	~	229	0	0
6	3.4	3.4	38	2.2	2.9	70	3.3	3.3	102	2.1	2.1	134	2.4	2.4	166	1.6	1.6	198	~	~	230	~	~
7	~	~	39	~	~	71	0.1	0.1	103	2.6	2.6	135			167	3.4	3.4	199	~	~	231	3.4	3.4
8	~	~	40	~	~	72	1.2	2.5	104	0.3	0.3	136			168	0	0	200	~	~	232	1.7	1.7
9	0	0	41	~	~	73	3.4	3.4	105	0	0	137			169	1.8	1.8	201	0	0	233	~	~
10	~	~	42	~	~	74	0	0	106	1.4	1.4	138			170	1.7	1.7	202	3.4	3.4	234	1.6	1.6
11	~	~	43	0.3	0.5	75	1.7	1.7	107	3.3	3.3	139	1.7	1.7	171	1.4	0.1	203	~	~	235	0	0
12	3.4	3.4	44	1.3	1.3	76	2.4	1.7	108			140	1.9	1.7	172	1.3	1.3	204	~	~	236	1.3	1.3
13	~	~	45	0.1	0.1	77			109			141	3.3	3.3	173	0	0	205	0	0	237	~	~
14	~	~	46	~	~	78			110	1.9	1.9	142	3.4	3.4	174			206	~	~	238	~	~
15	~	~	47	~	~	79			111	1.9	1.9	143			175			207	~	~	239	3.4	3.4
16	0	0	48	3.4	3.4	80	3.4	3.4	112	1.7	1.7	144	2.2	2.2	176			208	~	~	240	3.0	3.0
17	~	~	49	0	0	81			113	1.7	1.7	145	0	0	177	1.7	1.7	209	3.4	3.4	241	1.9	1.9
18	~	~	50	~	~	82			114	2.0	2.0	146	1.7	1.7	178	3.4	3.4	210	~	~	242	0	0
19	3.4	3.4	51	~	~	83	0.1	0.1	115	2.0	2.0	147	1.7	1.7	179	0	0	211	~	~	243	1.9	1.9
20	0	0	52	2.0	2.6	84	3.4	3.4	116	2.0	2.0	148	1.7	1.7	180			212	~	~	244	3.3	3.3
21			53	3.1	3.1	85	3.4	3.4	117	2.0	2.0	149	0.7	0.7	181			213	0	0	245	3.2	3.2
22	3.4	3.4	54	3.4	3.4	86	3.4	3.4	118	3.3	3.3	150	3.3	3.3	182			214			246	3.4	3.4
23	~	~	55	3.4	0.1	87	0	0	119	2.0	2.0	151	0.4	0.4	183			215			247	0	0
24	~	~	56	3.4	3.4	88	3.3	3.3	120	1.7	1.7	152	0.4	0.4	184			216	3.4	3.4	248	3.3	3.3
25	~	~	57	3.4	3.4	89	1.3	1.3	121	1.5	1.5	153	1.4	1.4	185			217	~	~	249	2.4	2.1
26	1.3	1.3	58	3.4	3.4	90			122	0	0	154	1.4	1.4	186			218	0	0	250	0	0
27	~	~	59	3.4	3.4	91			123	0.4	0.1	155	2.2	2.2	187			219	1.3	1.3	251	2.4	2.1
28	3.4	3.4	60	3.4	3.4	92			124	1.2	0.4	156			188			220	~	~	252	~	~
29	0	0	61	3.3	3.3	93	0	0	125	0.4	0.1	157	0	0	189			221	~	~	253	0	0
30	0.4	0.4	62	3.4	3.4	94			126	0.2	0.2	158	0.9	0.9	190	3.4	3.4	222	0	0	254	~	~
31	0.9	0.6	63	0	0	95			127	2.3	2.3	159	3.3	3.3	191	0	0	223	~	~	255	3.4	3.4
32	~	~	64	0	0	96			128	1.7	1.7	160	0	0	192	~	~	224	~	~	256	~	~

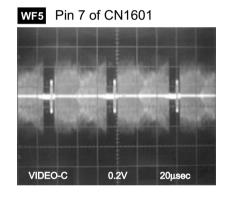


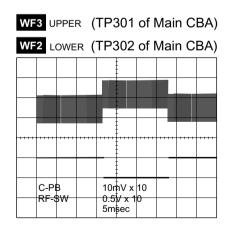
WAVEFORMS

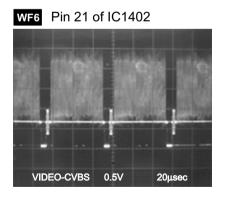






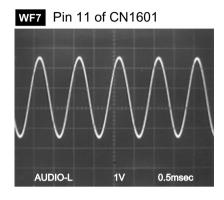


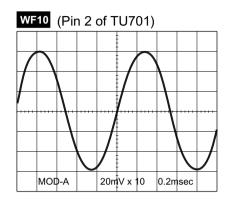


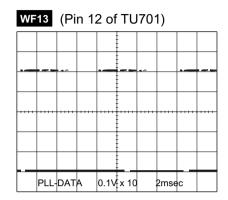


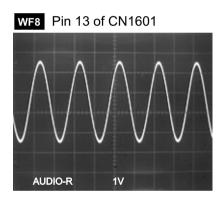
1-12-1 H94X1WF

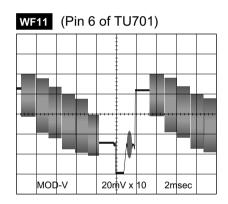
WAVEFORMS

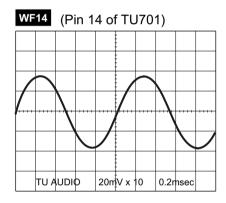


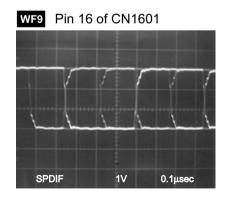


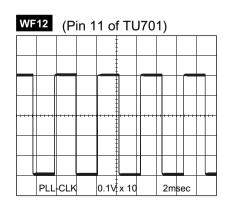


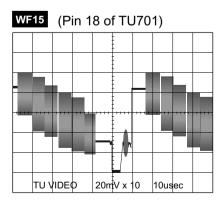






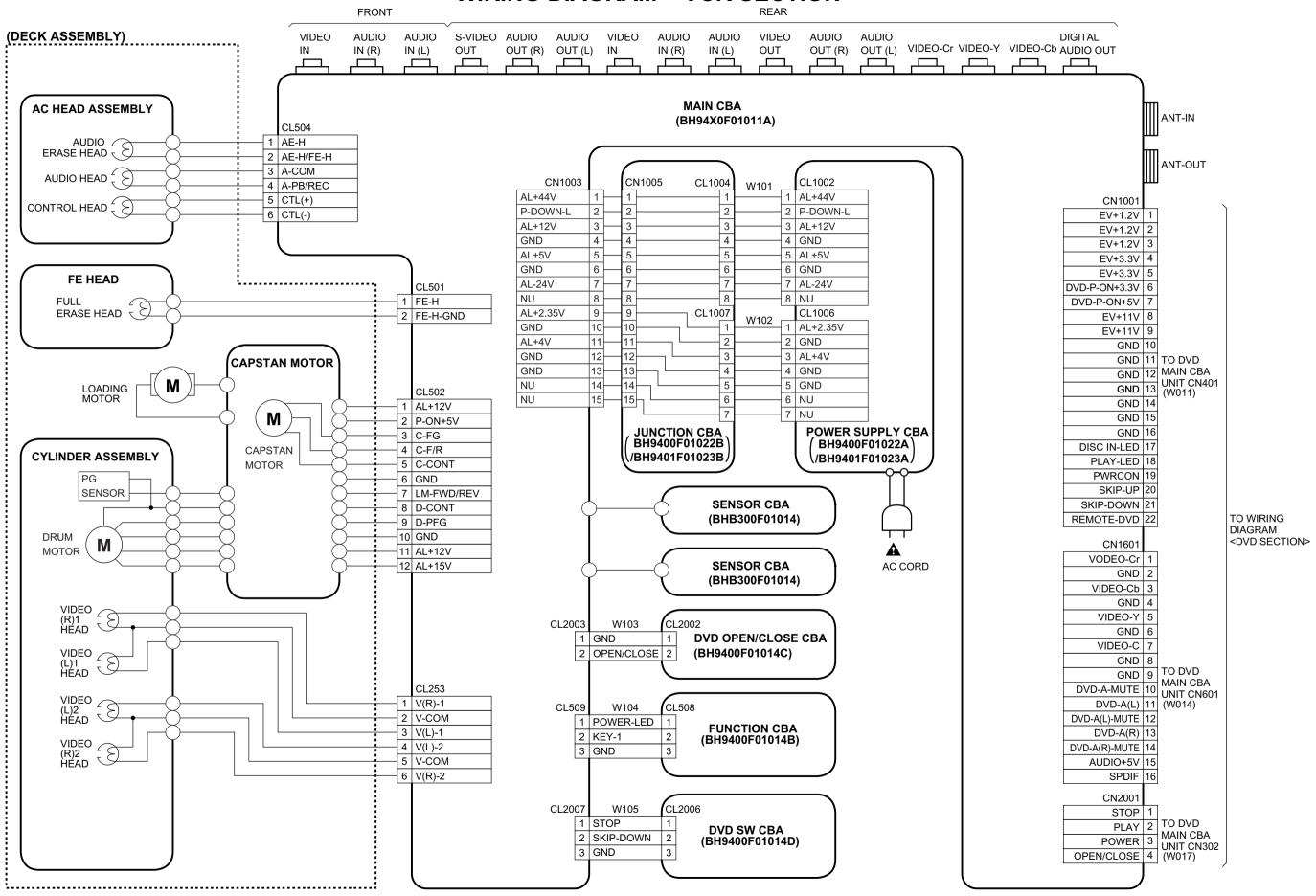






1-12-2 H94X1WF

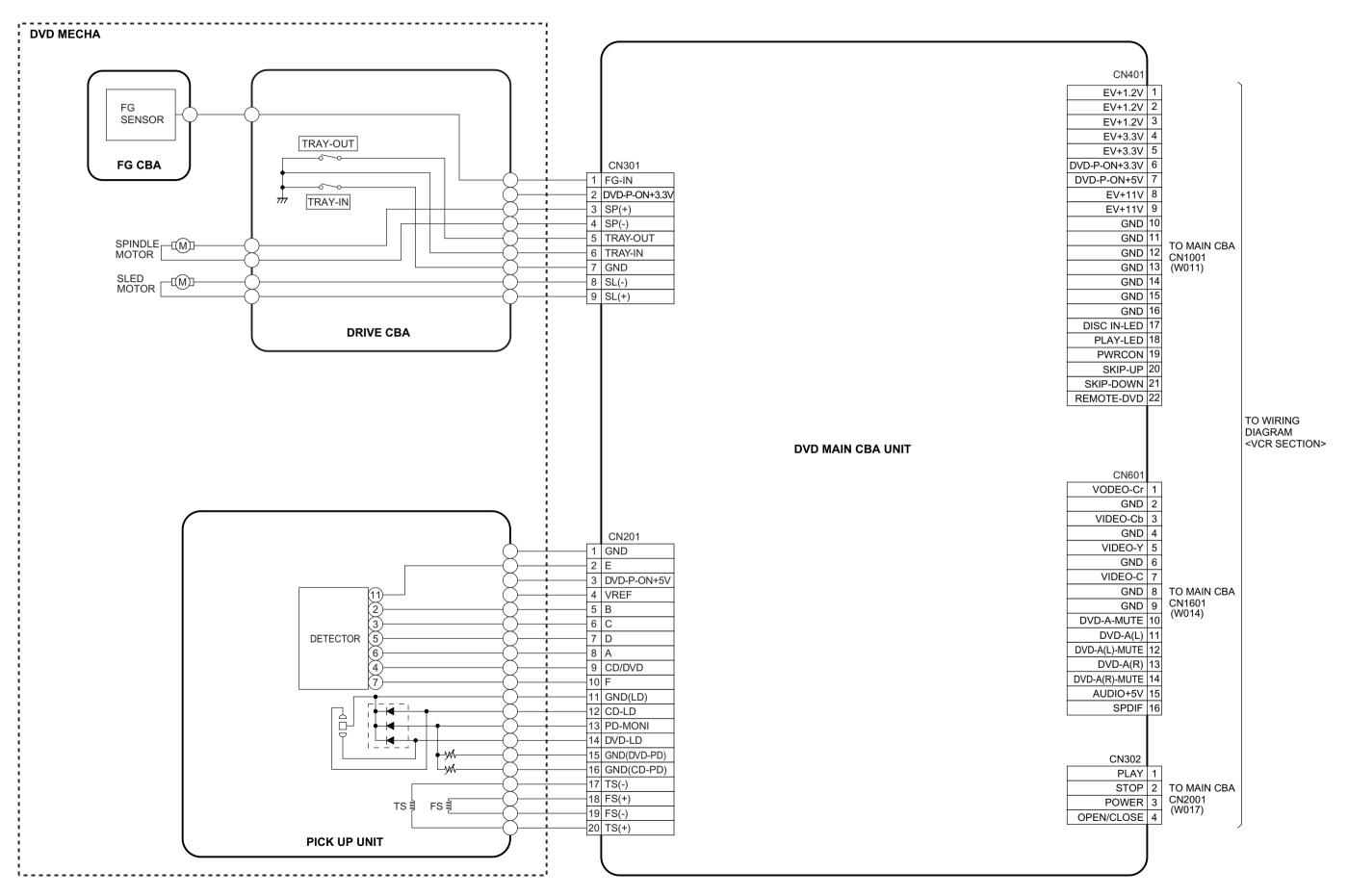
WIRING DIAGRAM < VCR SECTION >



H94X1WI

1-13-2

WIRING DIAGRAM < DVD SECTION >



1-13-4

SYSTEM CONTROL TIMING CHARTS

[VCR Section]

Mode SW: LD-SW

LD-SW Position detection A/D Input voltage Limit (Calculated voltage)	Symbol
3.76V~4.50V (4.12V)	EJ
4.51V~5.00V (5.00V)	CL
0.00V~0.25V (0.00V)	SB
1.06V~1.50V (1.21V)	TL
0.66V~1.05V (0.91V)	FB
1.99V~2.60V (2.17V)	SF
1.51V~1.98V (1.80V)	SM
3.20V~3.75V (3.40V)	AU
0.26V~0.65V (0.44V)	AL
4.51V~5.00V (5.00V)	SS
2.61V~3.19V (2.97V)	RS

L Note:

Note:

EJ → RS: Loading FWD (LM-FWD/REV "H")
RS → EJ: Loading REV (LM-FWD/REV "L")

Stop (A) = Loading Stop (B) = Unloading

Note:

Symbol	Loading Status
EJ	Eject
CL	Eject ~ REW Reel
SB	REW Reel ~ Stop(B)
TL	Stop(B) ~ Brake Cancel
FB	Brake Cancel ~ FF / REW
SF	FF / REW ~ Stop(M), (FF / REW)
SM	Stop(M), (FF / REW) ~ Stop(A)
AU	Stop(A) ~ Play / REC
AL	Play / REC ~ Still / Slow
SS	Still / Slow ~ RS (REW Search)
RS	RS (REW Search)

1-14-1 H9400TI

Still/Slow Control

Frame Advance Timing Chart

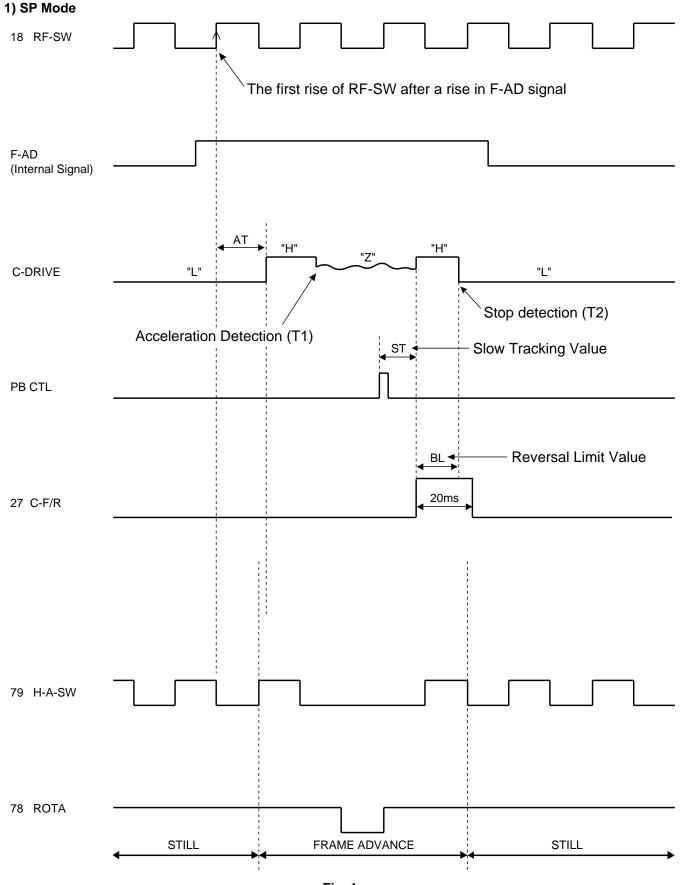
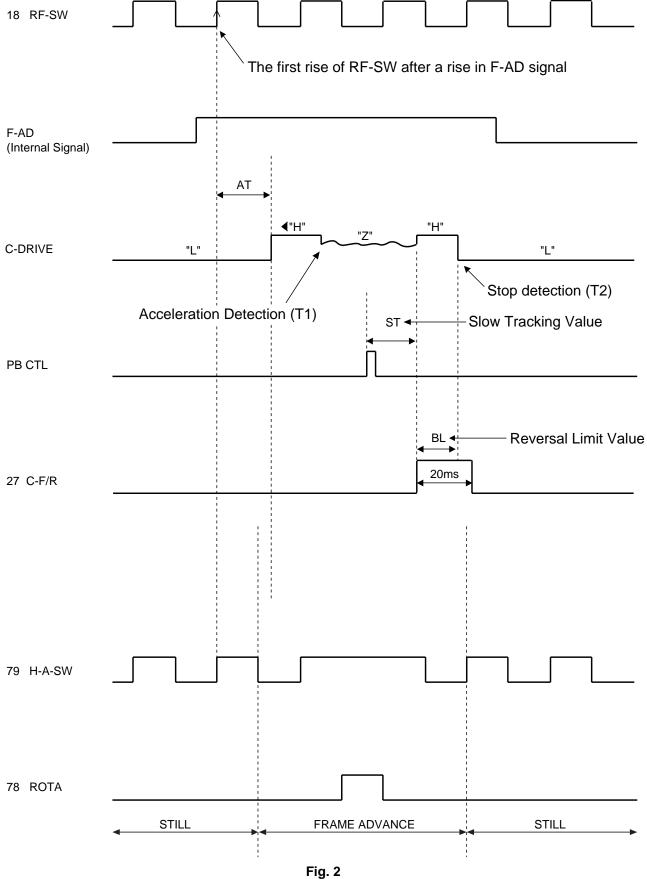


Fig. 1

1-14-2 H9400TI

2) LP/SLP Mode



1-14-3 H9400TI

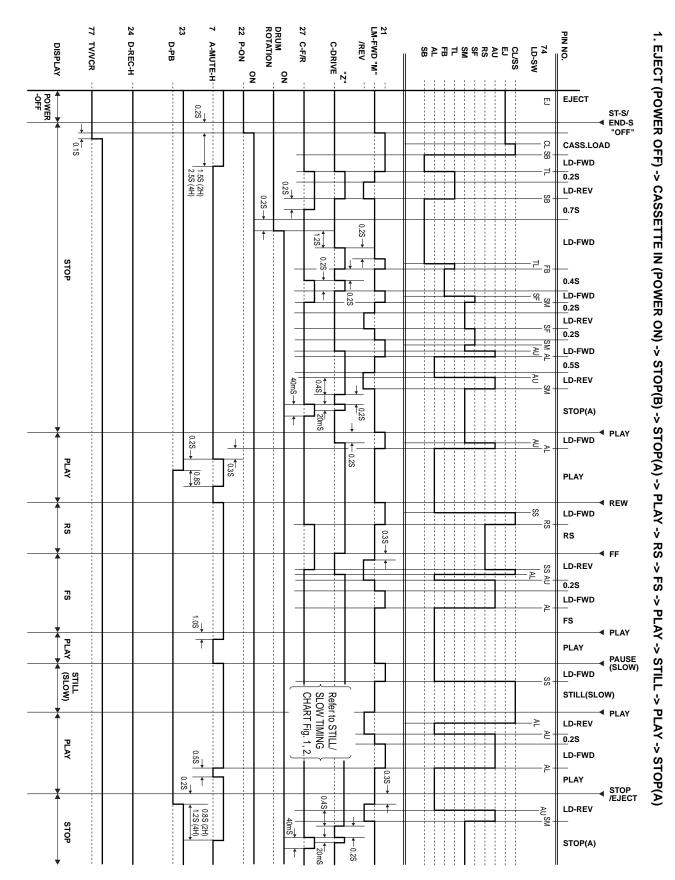


Fig. 3

1-14-4 H9400TI

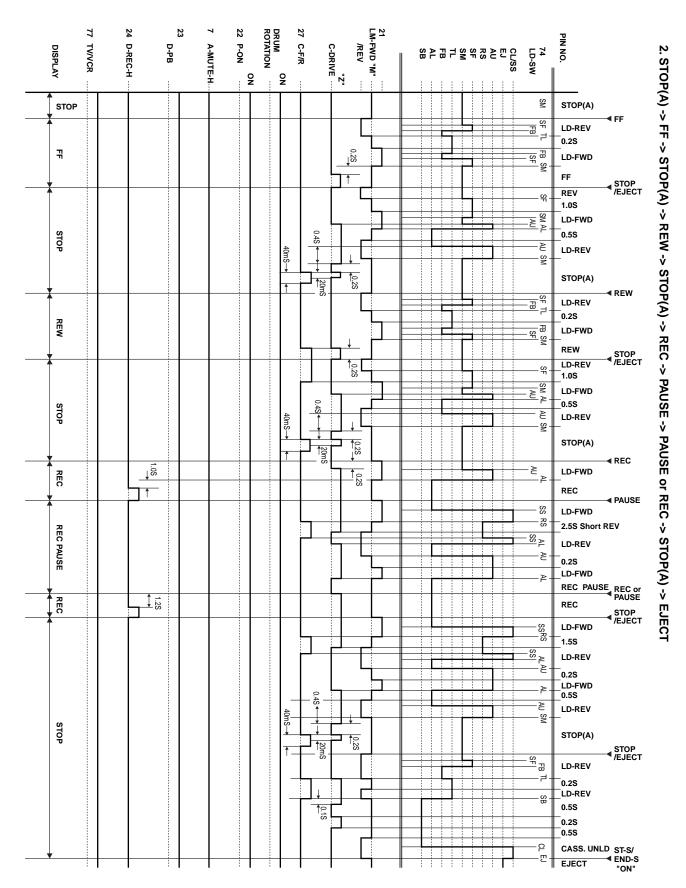
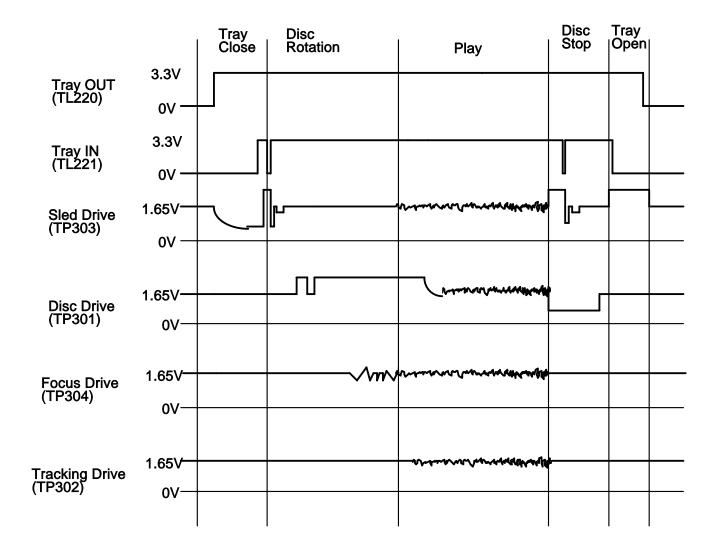


Fig. 4

1-14-5 H9400TI

[DVD Section]

Tray Close ~ Play / Play ~ Tray Open



1-14-6 H9400TI

IC PIN FUNCTION DESCRIPTIONS

IC501(SERVO / SYSTEM CONTROL IC)

"H" \geq 4.5V, "L" \leq 1.0V

Pins that have * in the Pin No. section on table below are not used.

Din	INI/	0:	1	A -4!
Pin No.	IN/ OUT	Signal Name	Function	Active Level
1	IN	P-DOWN -L	Power Voltage Down Detector Signal	L
2	IN	REC- SAF-SW	Recording Safety SW Detect (With Record tab = "L"/ With out Record tab = "H")	H/L
3	IN	T-REEL	Take Up Reel Rotation Signal	PULSE
4	-	N.U.	Not Used	-
5	IN	REMOTE -VIDEO	Remote Control Sensor	L
6	-	N.U.	Not Used	-
7	OUT	A-MUTE- H	Audio Mute Control Signal (Mute = "H")	Н
8	-	N.U.	Not Used	-
9	-	N.U.	Not Used	-
10	-	N.U.	Not Used	-
11	OUT	TRICK-H	Special Playback= "H"	H/Z/L
12	IN/ OUT	IIC-BUS- SDA	IIC BUS Control Data	H/L
13	OUT	IIC-BUS- SCL	IIC BUS Control Clock	H/L
14	OUT	SP/LP/ SLP	Top Speed Select Signal (SP="L"/ LP="Z"/SLP="H")	H/Z/L
15	-	N.U.	Not Used	-
16	OUT	INSEL/ ST-SL	Input Selector Control Signal (EE/ Rec)/Still/Slow (Playback)	H/Hi-z /L
17	-	N.U.	Not Used	-
18	OUT	RF-SW	Video Head Switching Pulse	H/L
19	OUT	D-V SYNC	Dummy V-sync Output	H/Hi-z
20	IN	RESET	System Reset Signal (Reset="L")	L
21	OUT	LM-FWD/ REV	Loading Motor FWD/ REV Output	H/Z/L
22	OUT	P-ON-L	Power On Signal to Low	L

Pin No.	IN/ OUT	Signal Name	Function	Active Level
23	OUT	D-PB-L	Playback Instruction Signal	L
24	OUT	D-REC-H	Delayed Record Signal	Н
25	-	N.U.	Not Used	-
26	OUT	DVD- POWER	DVD Power Control Signal	Н
27	OUT	C-F/R	Capstan Motor FWD/ REV Control Signal (FWD="L"/REV="H")	H/L
28	OUT	C-CONT	Capstan Motor Control Signal	PWM
29	OUT	D-CONT	Drum Motor Control Signal	PWM
30	-	N.U.	Not Used	-
31	-	VDD	VDD	-
32	OUT	osco	Main Clock Output 14.31818MHz	-
33	IN	osci	Main Clock Input 14.31818MHz	-
34	-	VSS	VSS	
35	IN	ΧI	Sub Clock Input 32.768 MHz	-
36	OUT	хо	Sub Clock Output 32.768 MHz	-
37	IN	SXI	Operation Mode Selecting Input Signal	-
38	OUT	VIDEO- OUT	Composite Video Signal Output	-
39	-	Vss2	Vss2	-
40	IN	VIDEO- IN	Composite Video Signal Input	
41	IN	C-SYNC	Composite Synchronized Pulse	PULSE
42	-	VDD2	VDD2	-
43	IN	AFCC	Low Path Filter Input Signal For AFC	-
44	OUT	AFCLPF	Low Path Filter Output Signal For AFC	-
45	-	N.U.	Not Used	-
46	OUT	OUTPUT- SELECT	Output Select	H/L
47	IN	D-PFG	Drum PG/FG Input Signal	PULSE

1-15-1 H94X1PIN

Pin No.	IN/ OUT	Signal Name	Function	Active Level
48	-	N.U.	Not Used	-
49	IN	C-FG	Capstan Motor Rotation Detection Pulse	PULSE
50	-	AFG	GND	-
51	OUT	VRO	Servo Standard Voltage Output	-
52	IN	VRI	Servo Standard Voltage Input	-
53	-	AVss	AVSS	-
54	IN	CTLA	CTL Amp. AC GND	-
55	-	AVDD	AVDD	-
56	IN/ OUT	CTL (+)	Playback/Record Control Signal (+)	-
57	IN/ OUT	CTL (-)	Playback/Record Control Signal (-)	-
58	OUT	CTL	Amp. Output Control Signal for Test Point	-
59	-	N.U.	Not Used	-
60	IN	POW- MONITO R	DVD Power Monitor Signal (P-off="L", P-on="H")	H/L
61	-	N.U.	Not Used	-
62	IN	END-S	Tape End Position Detect Signal	A/D
63	IN	AFC	Automatic Frequency Control Signal	A/D
64	IN	V-ENV	Video Envelope Comparator Signal	A/D
65	IN	PG- DELAY	Video Head Switching Pulse Signal Adjusted Voltage	A/D
66	IN	KEY-2	A/D Key Data Signal 2	A/D
67	IN	KEY-1	A/D Key Data Signal	A/D
68	IN	LD-SW	Deck Mode Position Detector Signal	A/D
69	IN	ST-S	Tape Start Position Detector Signal	A/D
70	OUT	VCR-IND	VCR Mode LED Signal Output	H/L
71	OUT	DVD-IND	DVD Mode LED Signal Output	H/L
72	OUT	REC-IND	REC Mode LED Signal Output	L
73	-	N.U.	Not Used	-
74	-	N.U.	Not Used	-

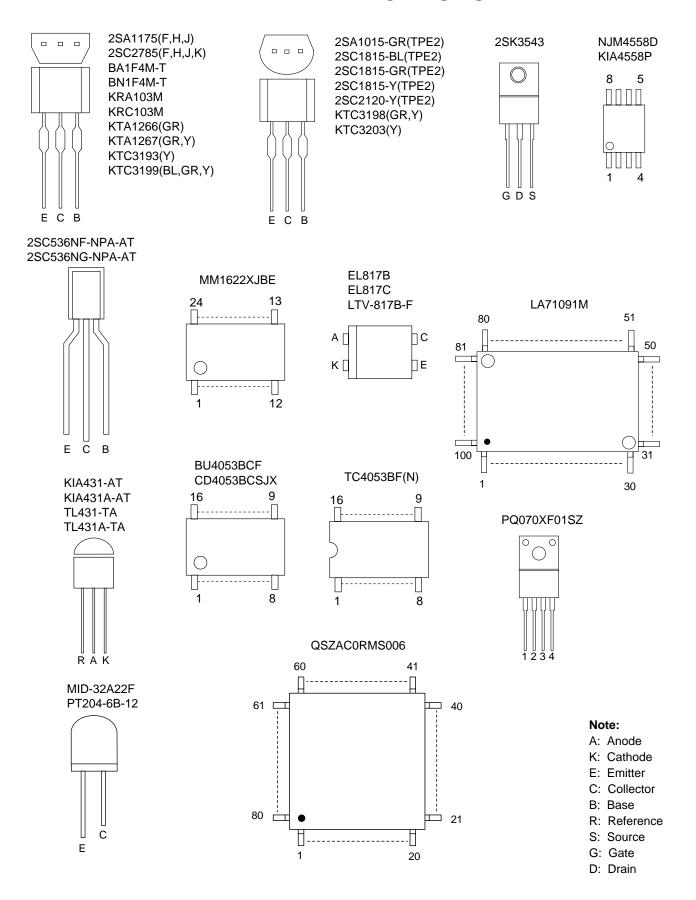
Pin No.	IN/ OUT	Signal Name	Function	Active Level
75	OUT	TIMER- IND	"TIMER" LED Signal Output	H/L
76	OUT	CONV- SW	RF Conv. Output Channel Switching Signal 3ch="Hi-z", 4ch="L"	Hi-z/L
77	OUT	VCR/TV	RF Conv. ON/OFF Signal (TV="L"/ VCR="H")	H/L
78	OUT	C-ROTA	Color Phase Rotary Changeover Signal	H/L
79	OUT	H-A-SW	Video Head Amp Switching Pulse	H/L
80	IN	H-A- COMP	Head Amp Comparator Signal	H/L

Notes:

Abbreviation for Active Level:
PWM -----Pulse Wide Modulation
A/D-----Analog - Digital Converter

1-15-2 H94X1PIN

LEAD IDENTIFICATIONS



1-16-1 H94X1LE

DECK MECHANISM SECTION

DVD PLAYER & VIDEO CASSETTE RECORDER EWD2203/EWD2003

Sec. 2: Deck Mechanism Section

- Standard Maintenance
- Alignment for Mechanism
- Disassembly/Assembly of Mechanism
- Alignment Procedures of Mechanism

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Disassembly / Assembly Procedures of Deck Mechanism	2-4-1
Alignment Procedures of Mechanism	2-4-9

STANDARD MAINTENANCE

Service Schedule of Components

H: Hours →: Check →: Change

	Deck	Periodic Service Schedule			
Ref.No.	Part Name	1,000 H	2,000 H	3,000 H	4,000 H
B2	Cylinder Assembly	0	•	•	•
В3	Loading Motor Assembly			•	
B8	Pulley Assembly		•		•
B587	Tension Lever Assembly		•		•
B31	AC Head Assembly			•	
B573,B574	Reel (SP)(D2), Reel (TU)(D2)			•	
B37	Capstan Motor		•		•
B52	Cap Belt		•		•
*B73	FE Head			•	
B133,B134	Idler Gear, Idler Arm		•		•
B410	Pinch Arm(A) Assembly		•		•
B414	M Brake (SP) Assembly		•		•
B416	M Brake (TU) Assembly		•		•
B525	LDG Belt		•		•
B569 (2 head only)	Cam Holder (F)		•		•
B593 (4 head, 4 head HiFi only)	Cam Holder (F) Assembly		•		•

Notes:

- 1.Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / Audio Control Head / Full Erase Head) using 90% Isopropyl Alcohol.
- 2. After cleaning the parts, do all DECK ADJUSTMENTS.
- 3. For the reference numbers listed above, refer to Deck Exploded Views.
 - * B73 ----- Recording Model only

2-1-1 U27MEN

Cleaning

Cleaning of Video Head

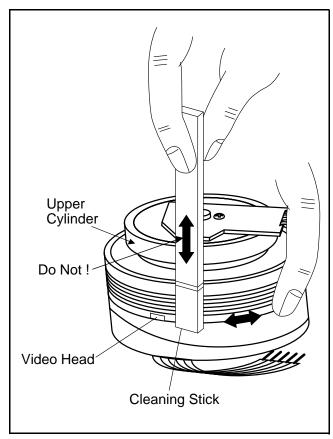
Clean the head with a head cleaning stick or chamois cloth.

Procedure

- 1.Remove the top cabinet.
- 2.Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
- 3.Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

Notes:

- 1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit.
- 3.Do not reuse a stained head cleaning stick or a stained chamois cloth.



Cleaning of Audio Control Head

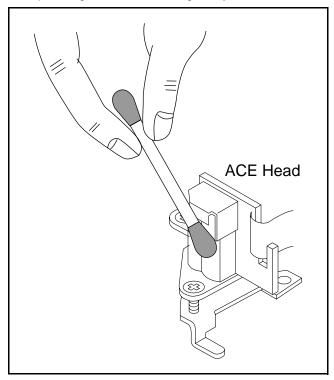
Clean the head with a cotton swab.

Procedure

- 1.Remove the top cabinet.
- 2.Dip the cotton swab in 90% isopropyl alcohol and clean the audio control head. Be careful not to damage the upper drum and other tape running parts.

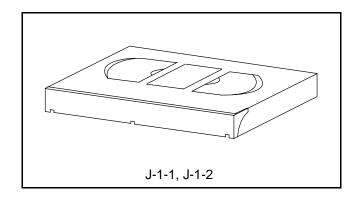
Notes:

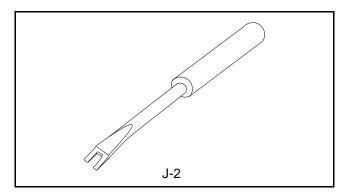
- 1. Avoid cleaning the audio control head vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.

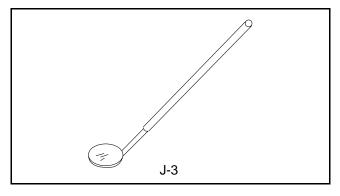


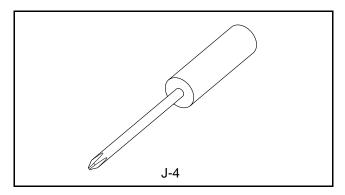
2-1-2 U27MEN

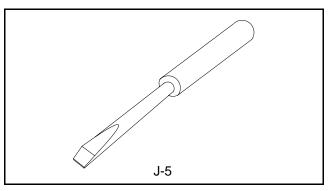
SERVICE FIXTURE AND TOOLS











Ref. No.	Name	Part No.	Adjustment
J-1-1	Alignment Tape	FL8A	Head Adjustment of Audio Control Head
J-1-2	Alignment Tape	FL8N (2Head only) FL8NW (4Head only)	Azimuth and X Value Adjustment of Audio Control Head / Adjustment of Envelope Waveform
J-2	Guide Roller Adj.Screwdriver	Available Locally	Guide Roller
J-3	Mirror	Available Locally	Tape Transportation Check
J-4	Azimuth Adj.Screwdriver +	Available Locally	A/C Head Height
J-5	X Value Adj.Screwdriver -	Available Locally	X Value

2-2-1 U25NFIX

MECHANICAL ALIGNMENT PROCEDURES

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit.

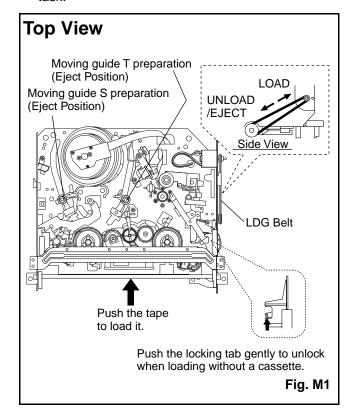
Service Information

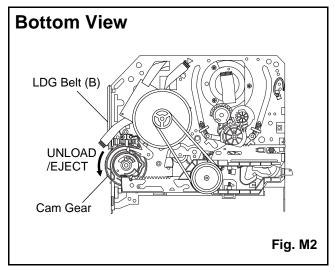
- A. Method for Manual Tape Loading/Unloading
- To load a cassette tape manually:
- 1. Disconnect the AC plug.
- 2. Remove the Top Case and Front Assembly.
- 3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
- 4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 for a minute or two to complete this task.

To unload a cassette tape manually:

- 1. Disconnect the AC plug.
- 2. Remove the Top Case and Front Assembly.
- 3. Make sure that the Moving guide preparations are in the Eject Position.
- 4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 until the Moving guide preparations come to the Eject Position. Stop turning when the preparations begin clicking or can not be moved further. However, the tape will be left wound around the cylinder.
- 5. Turn the LDG Belt in the appropriate direction continuously, and the cassette tape will be ejected. Allow a minute or two to complete this task.

- **B.** Method to place the Cassette Holder in the tapeloaded position without a cassette tape
- 1. Disconnect the AC Plug.
- 2. Remove the Top Case and Front Assembly.
- Turn the LDG Belt in the appropriate direction shown in Fig. M1. Release the locking tabs shown in Fig. M1 and continue turning the LDG Belt until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.





2-3-1 U27NMA

1. Tape Interchangeability Alignment

Note:

To do these alignment procedures, make sure that the Tracking Control Circuit is set to the center position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 2.)

Equipment required:

Dual Trace Oscilloscope

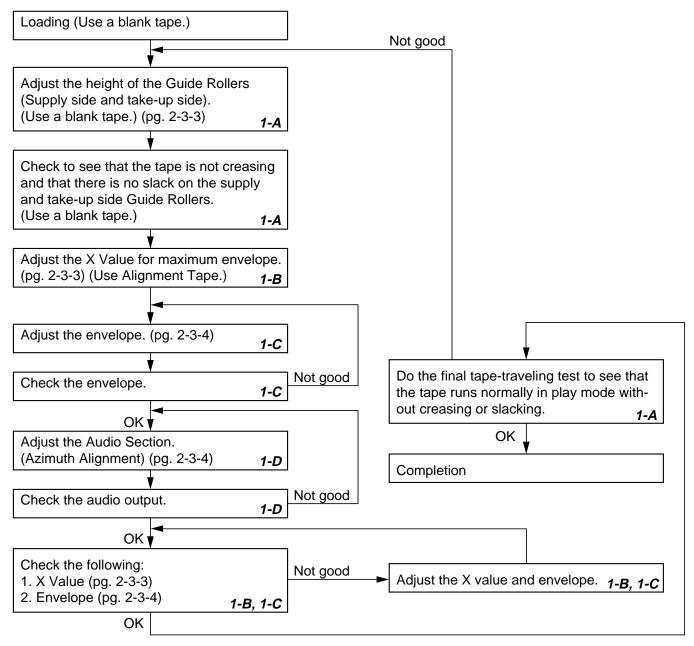
VHS Alignment Tape (FL8NW)

Guide Roller Adj. Screwdriver

X-Value Adj. Screwdriver

Note: Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.

Flowchart of Alignment for tape traveling



2-3-2 U27NMA

1-A. Preliminary/Final Checking and Alignment of Tape Path

Purpose:

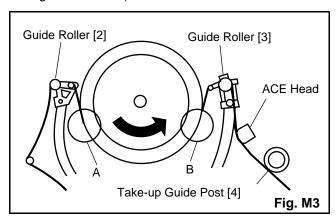
To make sure that the tape path is well stabilized.

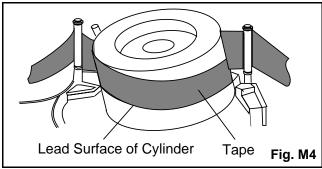
Symptom of Misalignment:

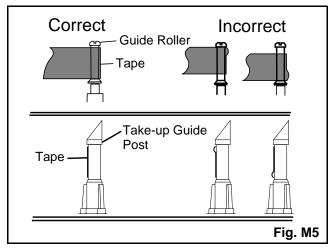
If the tape path is unstable, the tape will be damaged.

Note: Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

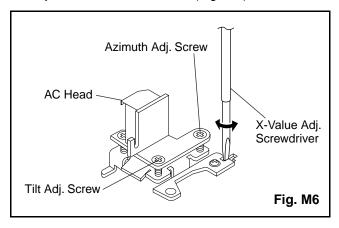
- Playback a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig. M3 and M4.)
- If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)







- 3. Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and AC Head. (Fig. M3 and M5)
- 4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the AC Head. (Fig. M6)



1-B. X Value Alignment

Purpose:

To align the Horizontal Position of the Audio/Control/ Erase Head.

Symptom of Misalignment:

If the Horizontal Position of the Audio/Control/Erase Head is not properly aligned, maximum envelope cannot be obtained at the Neutral position of the Tracking Control Circuit.

- Connect the oscilloscope to TP301 (C-PB) and TP513 (CTL) on the Main CBA. Use TP302 (RF-SW) as a trigger.
- Playback the Gray Scale of the Alignment Tape (FL8NW) and confirm that the PB FM signal is present.
- Set the Tracking Control Circuit to the center position by pressing CH UP button then "PLAY" button on the unit. (Refer to note on bottom of page 2-3-4.)
- Use the X-Value Adj. Screwdriver so that the PB FM signal at TP301 (C-PB) is maximum. (Fig. M6)
- 5. Press CH UP button on the unit until the CTL waveform has shifted by approx. +2msec. Make sure that the envelope is simply attenuated (shrinks in height) during this process so that you will know the envelope has been at its peak.

2-3-3 U27NMA

- 6. Press CH DOWN button on the unit until the CTL waveform has shifted from its original position (not the position achieved in step 5, but the position of CTL waveform in step 4) by approximately -2msec. Make sure that the envelope is simply attenuated (shrinks in height) once CTL waveform passes its original position and is further brought in the minus direction.
- Set the Tracking Control Circuit to the center position by pressing CH UP button and then "PLAY" button.

1-C. Checking/Adjustment of Envelope Waveform

Purpose:

To achieve a satisfactory picture and precise tracking.

Symptom of Misalignment:

If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

- 1. Connect the oscilloscope to TP301 (C-PB) on the Main CBA. Use TP302 (RF-SW) as a trigger.
- 2. Playback the Gray Scale on the Alignment Tape (FL8NW). Set the Tracking Control Circuit to the center position by pressing CH UP button and then "PLAY" button on the unit. Adjust the height of Guide Rollers [2] and [3] (Fig. M3, Page 2-3-3) watching the oscilloscope display so that the envelope becomes as flat as possible. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
- 3. If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- 4. If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- 5. When Guide Rollers [2] and [3] (Refer to Fig.M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.

Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure center position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the "X Value Alignment."

1-D. Azimuth Alignment of Audio/Control/ Erase Head

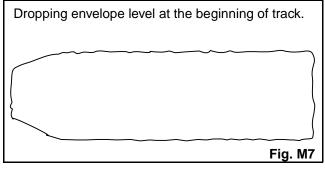
Purpose:

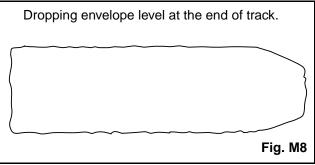
To correct the Azimuth alignment so that the Audio/Control/Erase Head meets tape tracks properly.

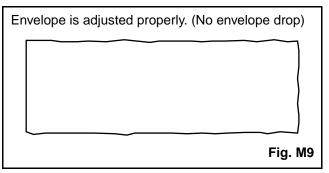
Symptom of Misalignment:

If the position of the Audio/Control/Erase Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

- 1. Connect the oscilloscope to the audio output jack on the rear side of the deck.
- Playback the alignment tape (FL8NW) and confirm that the audio signal output level is 8kHz.
- Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform on the oscilloscope is at maximum. (Fig. M6)







2-3-4 U27NMA

DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

Before following the procedures described below, be sure to remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS on page 1-7-1.)

All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [41] and [42] in Fig.DM1 on page 2-4-3. When reassembling, follow the steps in reverse order.

OTED	OTABT	PART			REMOVAL	INSTALLATION
STEP /LOC. No.	START- ING No.			Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Guide Holder A	Т	DM3	2(S-1)	
[2]	[1]	Cassette Holder Assembly	Т	DM4		
[3]	[2]	Slider (SP)	Т	DM5	(S-1A), *(L-1)	
[4]	[2]	Slider (TU)	Т	DM5	*(L-2)	
[5]	[4]	Lock Lever	Т	DM5	*(L-3),*(P-1)	
[6]	[2]	Cassette Plate	Т	DM5		
[7]	[7]	Cylinder Assembly	Т	DM1,DM6	Desolder, 3(S-2)	
[8]	[8]	Loading Motor Assembly	Т	DM1,DM7	Desolder, LDG Belt, 2(S-3)	
[9]	[9]	AC Head Assembly	Т	DM1,DM7	(S-4)	
[10]	[2]	Tape Guide Arm Assembly	Т	DM1,DM8	*(P-2)	
[11]	[10]	C Door Opener	Т	DM1,DM8	*(L-4)	
[12]	[11]	Pinch Arm (B)	Т	DM1,DM8	*(P-3)	
[13]	[12]	Pinch Arm Assembly	Т	DM1,DM8		
[14]	[14]	FE Head Assembly	Т	DM1,DM9	(S-5)	
[15]	[15]	Prism	Т	DM1,DM9	(S-6)	
[16]	[2],[15]	Sensor Gear	Т	DM1,DM15		
[17]	[2]	Slider Shaft	Т	DM10	*(L-5)	
[18]	[17]	C Drive Lever (SP)	Т	DM10		
[19]	[17]	C Drive Lever (TU)	Т	DM10	(S-7),*(P-4)	
[20]	[7],[8], [10]	Capstan Motor	В	DM2,DM11	3(S-8), Cap Belt	
[21]	[21]	Clutch Assembly	В	DM2,DM12	(C-1)	
[22]	[22]	Cam Holder (F) Assembly	В	DM2,DM12	*(L-6)	
[23]	[23]	Cam Gear (B)	В	DM2,DM12	(C-4)*(P-5)	
[24]	[24]	Mode Gear	В	DM2,DM13	(C-2)	
[25]	[21],[23], [24]	Mode Lever	В	DM2,DM13	(C-3), *(L-8)	
[26]	[22]	Worm Holder	В	DM2,DM13	(S-9),*(L-9),*(L-10)	
[27]	[26]	Pulley Assembly	В	DM2,DM13		
[28]	[25],[26]	Cam Gear (A)	В	DM2,DM13		
[29]	[25]	Idler Gear	В	DM1,DM14		
[30]	[29]	Idler Arm	В	DM1,DM14	*(L-11)	
[31]	[25]	BT Arm	В	DM2,DM14	*(P-6)	
[32]	[25]	Loading Arm (SP) Assembly	В	DM2,DM14		(+)Refer to Alignment Sec.Pg.2-4-9

2-4-1

H94X1DA

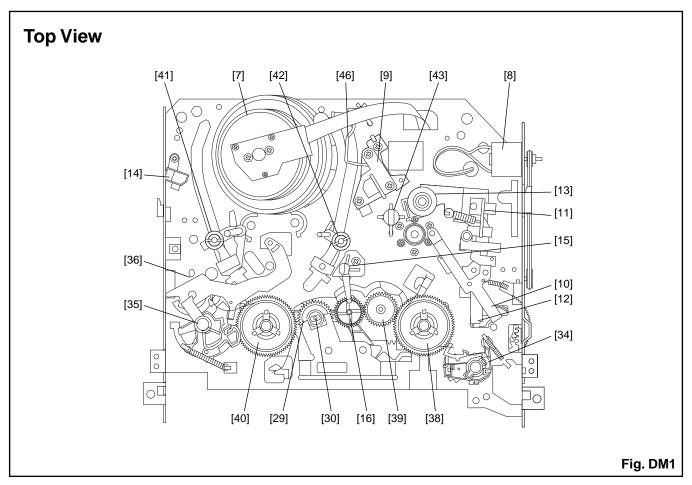
STEP	START-	PART			REMOVAL	INSTALLATION
/LOC. No.	ING No.			Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[33]	[32]	Loading Arm (TU) Assembly	В	DM2,DM14		(+)Refer to Alignment Sec.Pg.2-4-9
[34]	[2],[25]	M Brake (TU) Assembly	Т	DM1,DM15	*(P-7), Brake Belt	
[35]	[2],[25]	M Brake (SP) Assembly	Т	DM1,DM15	*(P-8)	
[36]	[35]	Tension Lever Assembly	Т	DM1,DM15		
[37]	[36]	T Lever Holder	Т	DM15	*(L-12)	
[38]	[34]	Reel (TU)(D2)	Т	DM1,DM15		
[39]	[38]	M Gear	Т	DM1,DM15		
[40]	[36]	Reel (SP)(D2)	Т	DM1,DM15		
[41]	[32],[36]	Moving Guide S Preparation	Т	DM1,DM16		
[42]	[33]	Moving Guide T Preparation	Т	DM1,DM16		
[43]	[19]	TG Post Assembly	Т	DM1,DM16	*(L-13)	
[44]	[28]	Rack Assembly	R	DM17		(+)Refer to Alignment Sec.Pg.2-4-9
[45]	[44]	F Door Opener	R	DM17		
[46]	[46]	Cleaner Assembly	Т	DM1,DM6		
[47]	[46]	CL Post	T	DM6	*(L-14)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

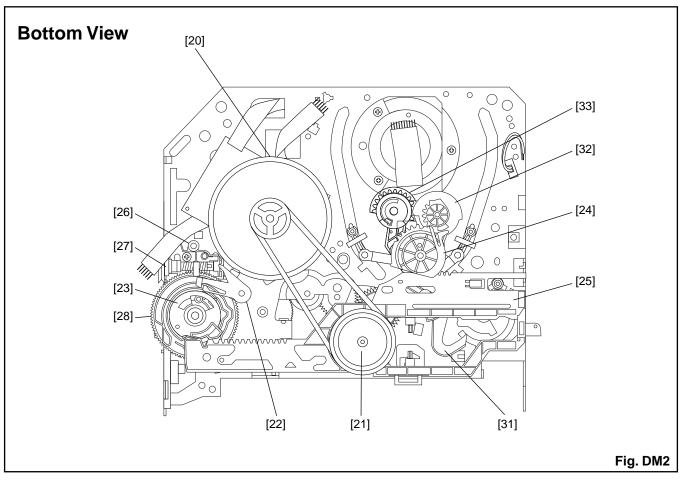
(1): Follow steps in sequence. When reassembling, follow the steps in reverse order.

These numbers are also used as identification (location) No. of parts in the figures.

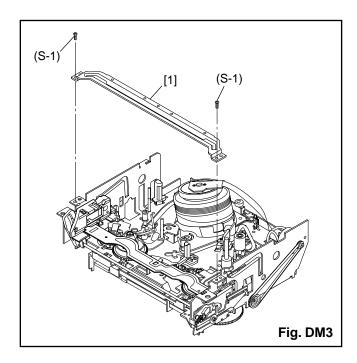
- (2): Indicates the part to start disassembling with in order to disassemble the part in column (1).
- (3): Name of the part
- (4): Location of the part: T=Top B=Bottom R=Right L=Left
- (5): Figure Number
- (6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered. P=Spring, W=Washer, C=Cut Washer, S=Screw, *=Unhook, Unlock, Release, Unplug, or Desolder e.g., 2(L-2) = two Locking Tabs (L-2).
- (7): Adjustment Information for Installation
 - (+):Refer to Deck Exploded Views for lubrication.

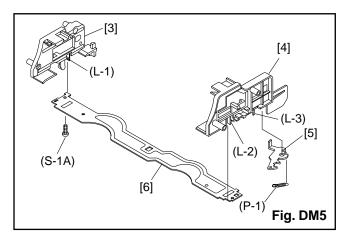
2-4-2 H94X1DA

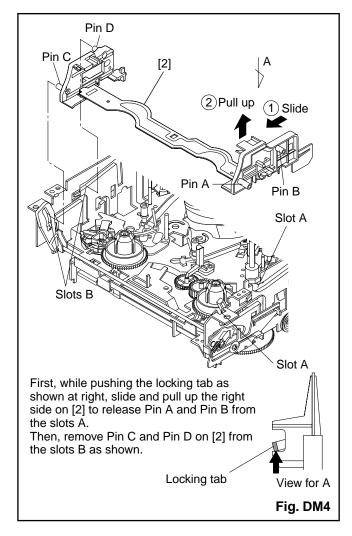


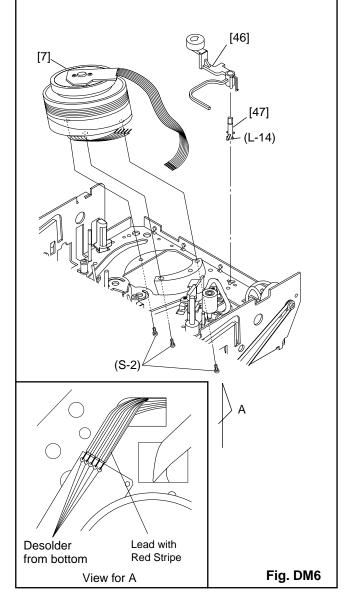


2-4-3 H94X1DA

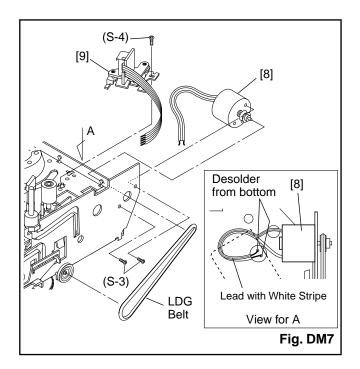


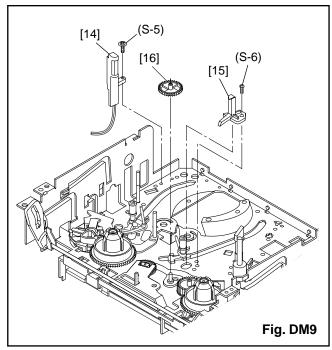


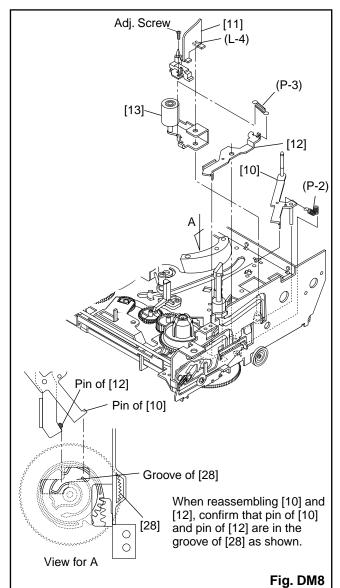


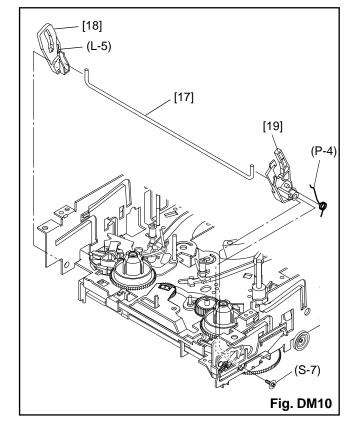


2-4-4 H94X1DA

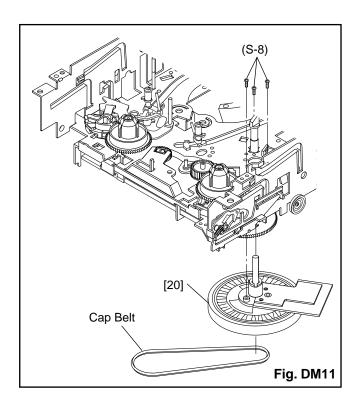


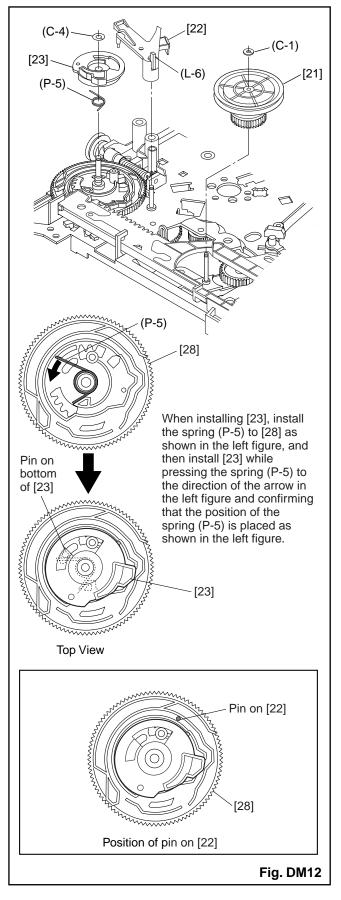




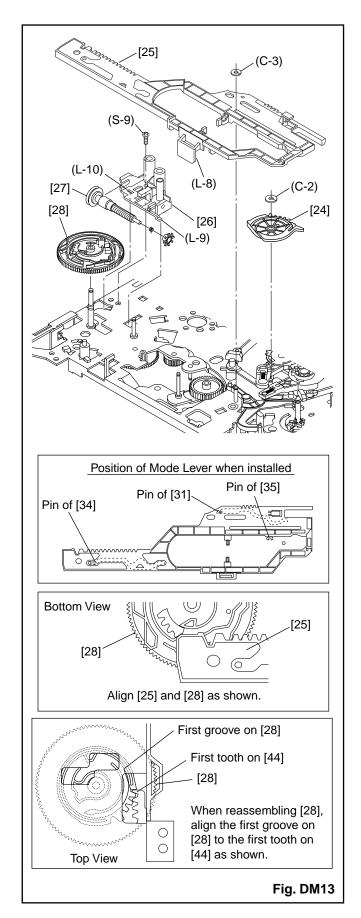


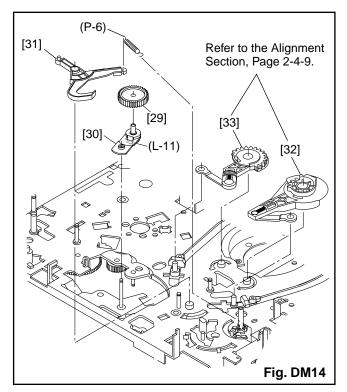
2-4-5 H94X1DA

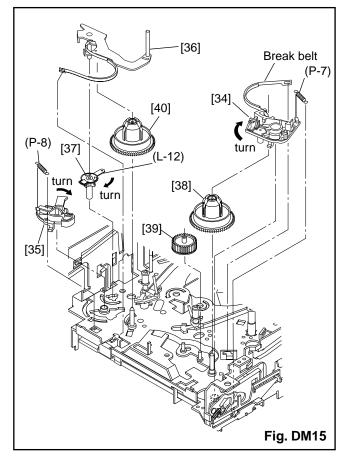




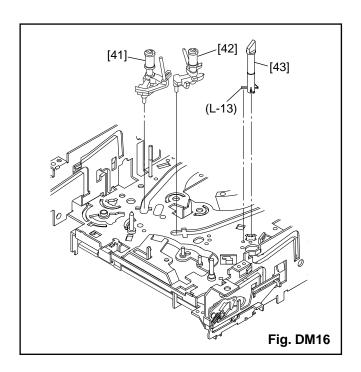
2-4-6 H94X1DA

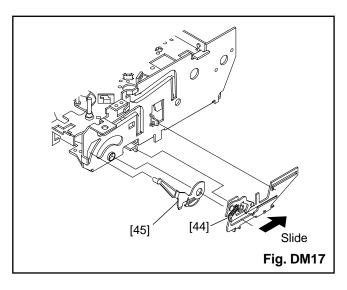






2-4-7 H94X1DA





2-4-8 H94X1DA

ALIGNMENT PROCEDURES OF MECHANISM

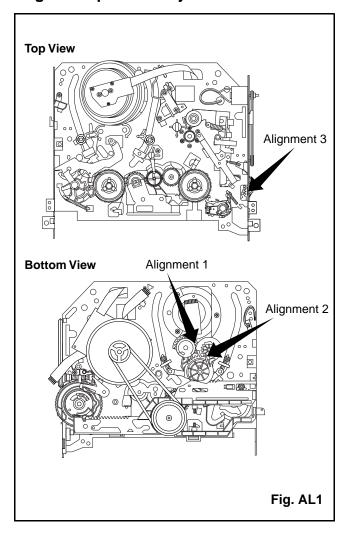
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

All alignments are to be performed with the mechanism in Eject mode, in the sequence given. Each procedure assumes that all previous procedures have been completed.

IMPORTANT:

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

Alignment points in Eject Position



Alignment 1

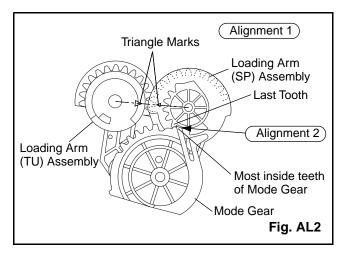
Loading Arm (SP) and (TU) Assembly

Install Loading Arm (SP) and (TU) Assembly so that their triangle marks point to each other as shown in Fig. AL2.

Alignment 2

Mode Gear

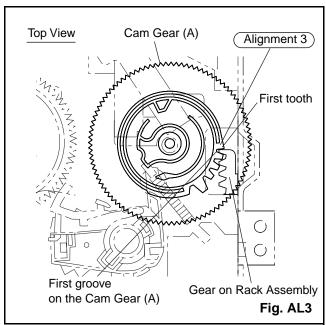
Keeping the two triangles pointing at each other, install the Loading Arm (SP) Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.



Alignment 3

Cam Gear (A), Rack Assembly

Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) as shown in Fig. AL3.



2-4-9 U27NAPM

EXPLODED VIEWS AND PARTS LIST SECTION

DVD PLAYER & VIDEO CASSETTE RECORDER

EWD2203/EWD2003

Sec. 3: Exploded views and Parts List Section

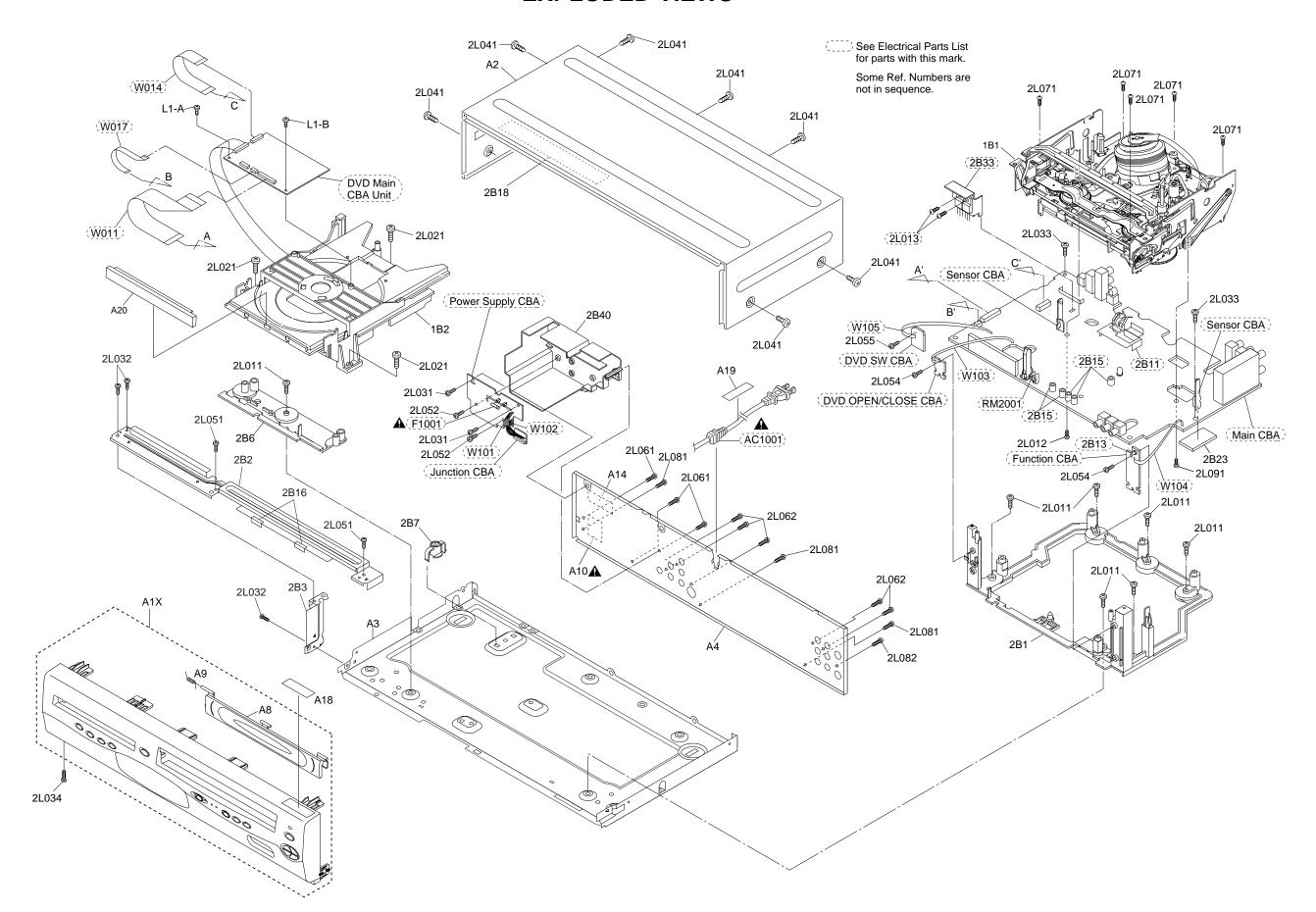
- Exploded views
- Parts List

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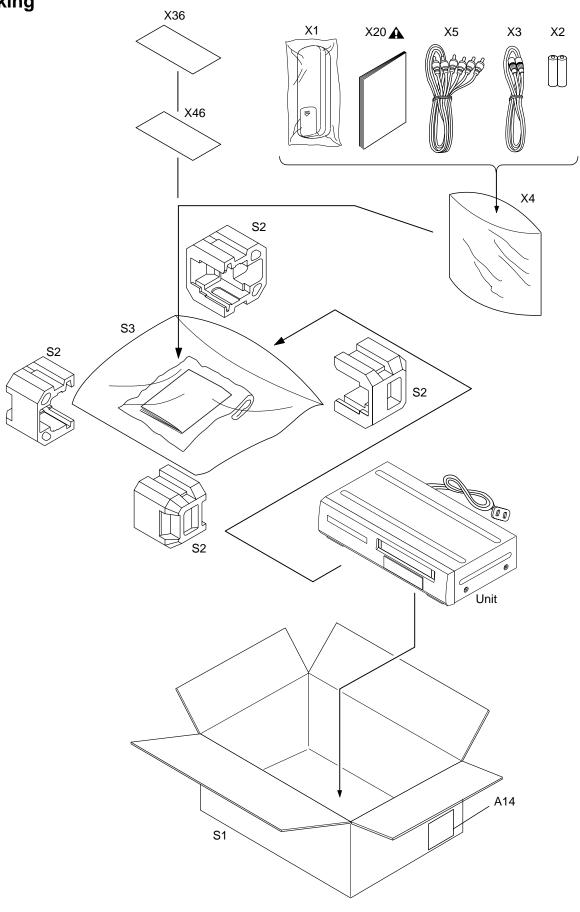
Exploded Views	. 3-1-1
Mechanical Parts List	. 3-2-1
Electrical Parts List	. 3-3-1
Deck Parts List	. 3-4-1

EXPLODED VIEWS

Cabinet



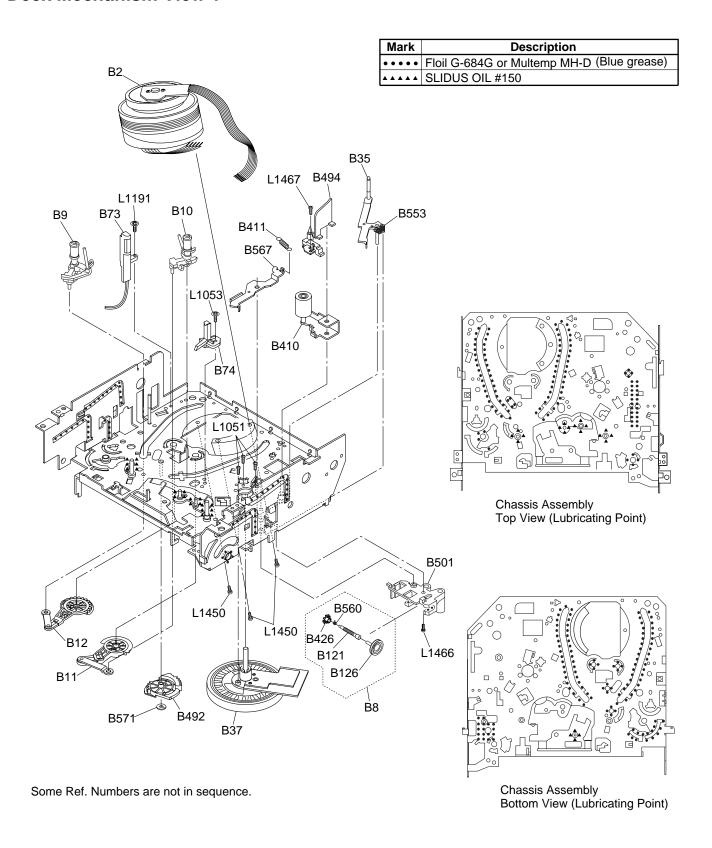




3-1-3 H94X1PEX

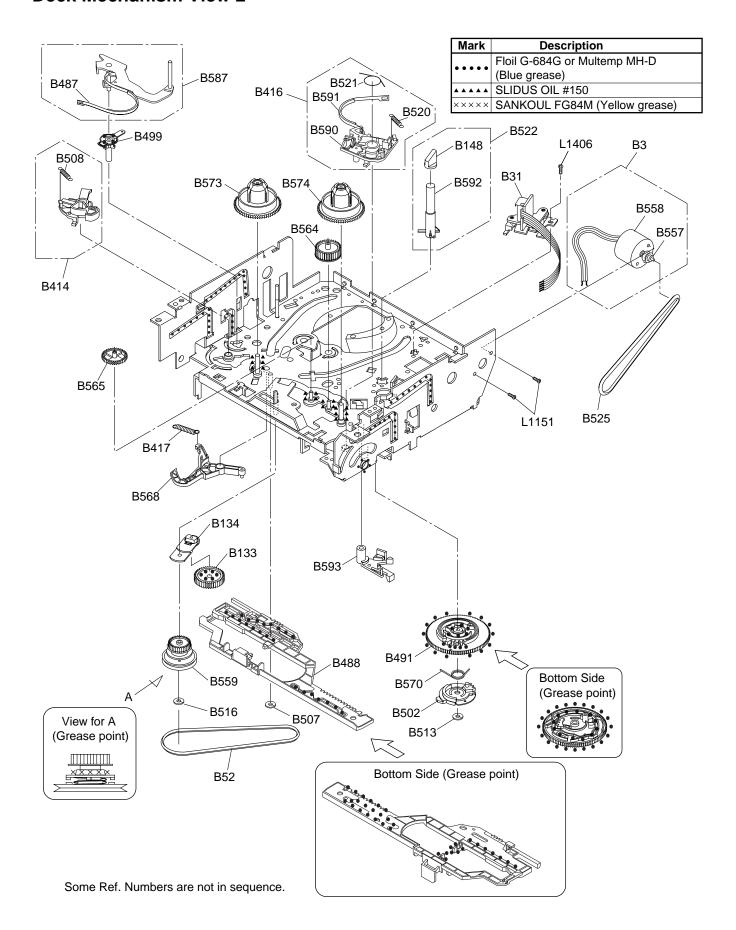
DECK EXPLODED VIEWS

Deck Mechanism View 1



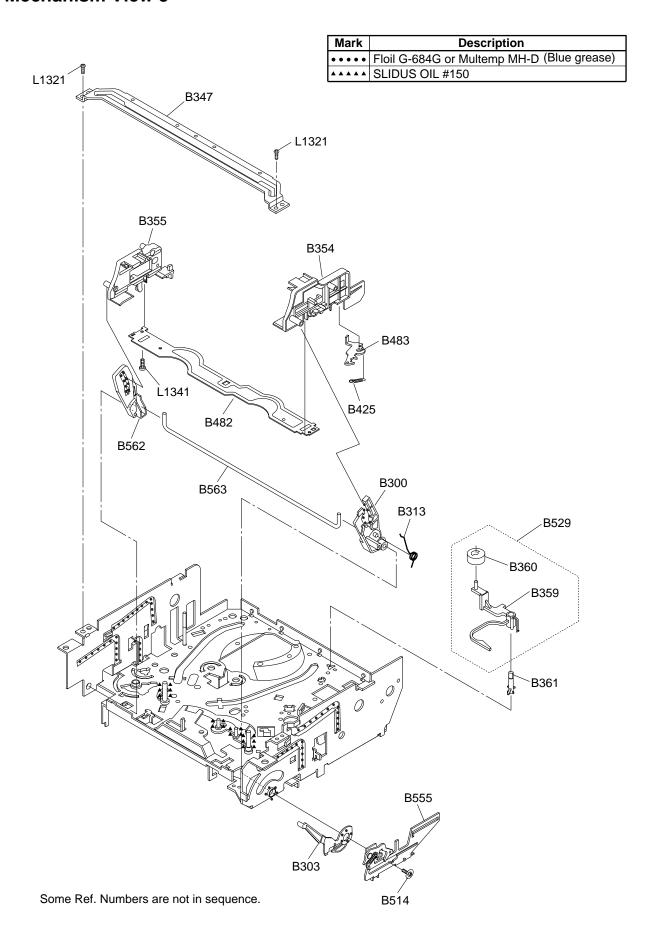
3-1-4 H94X1DEX

Deck Mechanism View 2



3-1-5 H94X1DEX

Deck Mechanism View 3



3-1-6 H94X1DEX

MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ♠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE:

Parts that are not assigned part numbers (-----) are not available.

Comparison Chart of Models and Marks

Model	Mark
EWD2203	Α
EWD2003	В

Ref. No.	Mark	Description	Part No.
A1X	Α	FRONT ASSEMBLY H9410UD	0VM204041
A1X	В	FRONT ASSEMBLY H94A4UD	0VM204460
A2		TOP COVER H9400UD	0VM101208
A3		CHASSIS(E4+U27) H9400UD	0VM101207
A4		PANEL, REAR H9410UD	0VM204006
A8	Α	DOOR, CASSETTE H9410UD	0VM305940
A8	В	DOOR, CASSETTE H94A4UD	0VM416103
A9		SPRING, DOOR H7220UD U15	0VM408617
A10 ▲	Α	LABEL, RATING(U) H94X1UD or	
A	Α	LABEL, RATING(D) H94X1UD	
A10 ▲	В	LABEL, RATING(U) H94X2UD or	
A	В	LABEL, RATING(D) H94X2UD	
A14		LABEL, BAR CODE HB400UD	
A14	Α	LABEL, BAR CODE H9410UD	
A14	В	LABEL, BAR CODE H94A4UD	
A18		LABEL, TELEPHONE NUMBER H7931UD(EMERSON)	
A19		HOLDER, EAS(H9410UD) MAKER NO.EM150DR	0VM415877
A20	Α	PANEL, TRAY H9410UD	0VM101245
A20	В	PANEL, TRAY H94A4UD	0VM416109
1B1		DECK ASSEMBLY CZD012/VM1640	N1640FL
1B2		DVD MECHA 0838 VCDVM040	N79F0GVM
2B1		DECK PEDESTAL-1 H9400UD	0VM101201-1
2B2		TOP BRACKET H9100UD	0VM203252A
2B3		SIDE BRACKET H9100UD	0VM305013
2B6		DECK PEDESTAL-2 H9400UD	0VM101201-2
2B7		DECK PEDESTAL-3 H9400UD	0VM101201-3
2B16		TAPE, HIMELON H9206JD	0VM413956
2B18		FIBER, TOP CASE HC460ED	0VM412906
2B23		M-PCB RUBBER H9400UD	0VM415762
2B40		INSULATOR H9400UD	0VM305872
2L011		SCREW, S-TIGHT M3X8 BIND + CHROME	GBMS3080
2L012		SCREW, S-TIGHT M3X8 BIND + CHROME	GBMS3080
2L021		SCREW, S-TIGHT M3X26 H9400UD	0VM414507
2L031		SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
2L032		SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
2L033		SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
2L034		SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060
2L041		SCREW, C-TIGHT M3X5 BIND HEAD +	GBCC3050

Ref. No.	Mark	Description	Part No.
2L051		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L052		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L054		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L055		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L061		SCREW, B-TIGHT M3X8 BIND HEAD +	GBKB3080
2L062		SCREW, B-TIGHT M3X8 BIND HEAD +	GBKB3080
2L071		SCREW, P-TIGHT M3X10 WASHER HEAD+	GCMP3100
2L081		SCREW, S-TIGHT M3X5 BIND HEAD +	GBKS3050
2L082		SCREW, S-TIGHT M3X5 BIND HEAD +	GBKS3050
2L091		SCREW, P-TIGHT M3X8 BIND HEAD+	GBCP3080
		PACKING	
S1	Α	GIFT BOX CARTON H9410UD	0VM306061A
S1	В	GIFT BOX CARTON H94A4UD	0VM306665
S2		STYROFOAM(2) H9100UD	0VM203377C
S3		UNIT, BAG E5500UD	0VM411683
		ACCESSORIES	
X1		REMOTE CONTROL UNIT 364/CRC007 or	NA209UD
		REMOTE CONTROL UNIT 364/CRC007	NA259UD
X2		DRY BATTERY R6P/2S or	XB0M451T0001
		DRY BATTERY ES-GR6M-C	XB0M571GLP01
X3		RF CABLE 2.5C-2V	WPZ0901TM002
X4		ACCESSORY BAG H3600UD T=0.03	0VM409454
X5		AV CORD TSCKA-Y/RW100 or	WPZ0102TM015
		AV CORD RCA(M*2)TO RCA(M*2)	WPZ0102LTE01
X20A	Α	OWNER'S MANUAL H9410UD	0VMN03468
X20A	В	OWNER'S MANUAL H94A4UD	0VMN03884
X36		RETURN STOP SHEET H9410UD	0VM414898
X46		DVD RENTAL SHEET H9410UD	0VMN03694

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ♠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

- 1. Parts that are not assigned part numbers (-----) are not available.
- 2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C±0.25%	D±0.5%	F±1%
G±2%	J±5%	K±10%
M±20%	N±30%	Z+80/-20%

3. LED Type:

When it is necessary to replace one or more of the following diodes, all six should be replaced: D564, D565, D566, D567, D2001 and D2002 on the Main CBA.

DVD MAIN CBA UNIT

Ref. No.	Description	Part No.
	DVD MAIN CBA UNIT	N7BFNGUP

MCV CBA

Ref. No.	Description	Part No.
	MCV CBA Consists of the following	0VSA14670
	MAIN CBA (MCV-A) FUNCTION CBA (MCV-B) DVD OPEN/CLOSE CBA(MCV-C) DVD SW CBA(MCV-D) SENSOR CBA	 0VSA13627

MAIN CBA

Ref. No.	Description	Part No.
	MAIN CBA(MCV-A) Consists of the following	
	CAPACITORS	•
C023	ELECTROLYTIC CAP. 100μF/25V M or	CE1EMASDL101
	ELECTROLYTIC CAP. 100µF/25V M	CE1EMASTL101
C051	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C053	ELECTROLYTIC CAP. 100µF/6.3V M or	CE0KMASDL101
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101
C060	CERAMIC CAP.(AX) B K 0.1μF/25V	CCA1EKT0B104
C253	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C255	CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZ30F103
C256	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C257	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104

Ref. No.	Description	Part No.
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C308	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C309	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C310	CHIP CERAMIC CAP. F Z 0.1μF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C311	CHIP CERAMIC CAP CH J 390pF/50V or	CHD1JJBCH391
	CHIP CERAMIC CAP CH J 390pF/50V or	CHD1JJ3CH391
	CHIP CERAMIC CAP CG J 390pF/50V	CHD1JJ3CG391
C312	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C314	CHIP CERAMIC CAP.(MELF) SL J 100pF/50V or	CZM1JJBSL101
	CHIP CERAMIC CAP(MELF) SL J 100pF/50V	CZM1JJ3SL101
C315	CHIP CERAMIC CAP(MELF) SL J 100pF/50V or	CZM1JJBSL101
	CHIP CERAMIC CAP(MELF) SL J 100pF/50V	CZM1JJ3SL101
C320	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C321	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C322	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C324	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C325	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C326	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C329	CHIP CERAMIC CAP (MELF) F Z 0.01µF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP(MELF) F Z 0.01µF/16V	CZM1CZ30F103
C330	CHIP CERAMIC CAP (MELF) F Z 0.01µF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP(MELF) F Z 0.01µF/16V	CZM1CZ30F103
C332	CHIP CERAMIC CAP. B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C333	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C335	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C336	CHIP CERAMIC CAP. B K 0.047µF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047µF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP(1608) B K 0.047µF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C337	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C339	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C340	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C341	CHIP CERAMIC CAP. B K 0.01μF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C344	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C345	CHIP CERAMIC CAP. B K 0.01μF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C346	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C347	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C348	CHIP CERAMIC CAP. B K 0.047μF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047μF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C349	CHIP CERAMIC CAP. B K 0.047µF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047µF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473

Ref. No.	Description	Part No.
C352	CHIP CERAMIC CAP. B K 0.047μF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047μF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C353	CHIP CERAMIC CAP. B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C354	CHIP CERAMIC CAP. CH J 68pF/50V or	CHD1JJBCH680
	CHIP CERAMIC CAP. CH J 68pF/50V or	CHD1JJ3CH680
	CHIP CERAMIC CAP. CG J 68pF/50V	CHD1JJ3CG680
C391	ELECTROLYTIC CAP. 100µF/10V M H7	CE1AMAVSL101
C392	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C401	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP (1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C402	CHIP CERAMIC CAP F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C403	CHIP CERAMIC CAP. F Z 0.1μF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C404	ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C405	ELECTROLYTIC CAP. 33µF/6.3V M H7	CE0KMAVSL330
C406	CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZ30F103
C408	ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C409	CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V or	CZM1CKB0Y472
	CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V	CZM1CK30Y472
C410	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C411	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V or	CZM1GKB0Y222
•	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V	CZM1GK30Y222
C413	CHIP CERAMIC CAP. B K 0.012µF/50V or	CHD1JKB0B123
	CHIP CERAMIC CAP. B K 0.012µF/50V	CHD1JK30B123
C415	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C417	CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V or	CZM1GKB0Y102
01117	CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V	CZM1GK30Y102
C418	CHIP CERAMIC CAP. B K 2700pF/50V or	CHD1JKB0B272
0+10	CHIP CERAMIC CAP. B K 2700pF/50V	CHD1JK30B272
C419	CHIP CERAMIC CAP. B K 0.01µF/50V or	CHD1JKB0B103
0+10	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C421	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C422	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C423	ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C423	CERAMIC CAP. B K 470pF/100V	CCD2AKS0B471
C424 C425	FILM CAP.(P) 0.018µF/100V J or	CMA2AJS00183
0420	, , ,	CA1J183MS029
CEO2	FILM CAP.(P) 0.018μF/50V J	
C502	ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C505	ELECTROLYTIC CAP 1::E/50\AALIZ	CE1AMAVSL220
C507	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C508	CHIP CERAMIC CAP B K 0.022µF/50V or	CHD1JKB0B223
	CHIP CERAMIC CAP. B K 0.022µF/25V or	CHD1EKB0B223

Ref. No.	Description	Part No.
	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP.(1608) B K 0.022μF/25V	CHD1EK30B223
C509	ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C513	CHIP CERAMIC CAP(MELF) SL D 10pF/50V or	CZM1JDBSL100
	CHIP CERAMIC CAP (MELF) SL D 10pF/50V or	CZM1JD3SL100
	CHIP CERAMIC CAP. CH D 10pF/50V or	CHD1JDBCH100
	CHIP CERAMIC CAP. CH D 10pF/50V or	CHD1JD3CH100
	CHIP CERAMIC CAP CG D 10pF/50V	CHD1JD3CG100
C514	CHIP CERAMIC CAP(MELF) SL J 22pF/50V or	CZM1JJBSL220
	CHIP CERAMIC CAP.(MELF) SL J 22pF/50V or	CZM1JJ3SL220
	CHIP CERAMIC CAP. CH J 22pF/50V or	CHD1JJBCH220
	CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
	CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C515	CHIP CERAMIC CAP.(MELF) SL J 18pF/50V or	CZM1JJBSL180
	CHIP CERAMIC CAP.(MELF) SL J 18pF/50V or	CZM1JJ3SL180
	CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJBCH180
	CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJ3CH180
	CHIP CERAMIC CAP. CG J 18pF/50V	CHD1JJ3CG180
C521	ELECTROLYTIC CAP. 47μF/25V M H7	CE1EMAVSL470
C522	CHIP CERAMIC CAP. B K 4700pF/50V or	CHD1JKB0B472
	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C523	CHIP CERAMIC CAP.(MELF) SL J 100pF/50V or	CZM1JJBSL101
	CHIP CERAMIC CAP.(MELF) SL J 100pF/50V	CZM1JJ3SL101
C525	CHIP CERAMIC CAP. B K 4700pF/50V or	CHD1JKB0B472
	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C527	CHIP CERAMIC CAP. B K 0.047µF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047µF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047µF/25V	CHD1EK30B473
C529	CHIP CERAMIC CAP. B K 0.022µF/50V or	CHD1JKB0B223
	CHIP CERAMIC CAP. B K 0.022µF/25V or	CHD1EKB0B223
	CHIP CERAMIC CAP.(1608) B K 0.022µF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP(1608) B K 0.022µF/25V	CHD1EK30B223
C530	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C531	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C532	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C533	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C534	CHIP CERAMIC CAP. B K 0.1μF/25V or	CHD1EKB0B104
	CHIP CERAMIC CAP. B K 0.1µF/16V or	CHD1CKB0B104
	CHIP CERAMIC CAP.(1608) B K 0.1µF/25V or	CHD1EK30B104
	CHIP CERAMIC CAP(1608) B K 0.1µF/16V	CHD1CK30B104
C535	ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMAVSL220
C536	CHIP CERAMIC CAP B K 1000pF/50V or	CHD1JKB0B102
0507	CHIP CERAMIC CAP B K 1000pF/50V	CHD1JK30B102
C537	CHIP CERAMIC CAP B K 1000pF/50V or	CHD1JKB0B102
0540	CHIP CERAMIC CAP B K 1000pF/50V	CHD1JK30B102
C540	CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZB0F103 CZM1CZ30F103
C701		
C701	ELECTROLYTIC CAP. 4.7μF/50V M or ELECTROLYTIC CAP. 4.7μF/50V M	CE1JMASDL4R7 CE1JMASTL4R7
C702	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JKB0B222
0102	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C703	ELECTROLYTIC CAP: 100µF/6.3V M or	CE0KMASDL101
5703	ELECTROLYTIC CAP. 100µF/6.3V M	CE0KMASTL101
C704	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
57.04	CHIP CERAMIC CAP: F Z 0.1µF/30V 01 CHIP CERAMIC CAP: F Z 0.1µF/25V 01	CHD13ZB0F104 CHD1EZB0F104
	CHIP CERAMIC CAP. F 2 0.1μF/25V 01 CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD15Z30F104
	CHIP CERAMIC CAP. (1006)1 2 0.1μμ /25V 01	CHD1JZ3FZ104
C707	FILM CAP.(P) 0.039µF/50V J or	CMA1JJS00393
1	FILM CAP.(P) 0.039µF/50V J	CA1J393MS029
	J / 5.555pi /567 6	

Ref. No.	Description	Part No.
C708	ELECTROLYTIC CAP. 0.22μF/50V M or	CE1JMASDLR22
	ELECTROLYTIC CAP. 0.22μF/50V M	CE1JMASTLR22
C709	ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C751	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V or	CZM1GKB0Y222
	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V	CZM1GK30Y222
C752	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V or	CZM1GKB0Y222
	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V	CZM1GK30Y222
C762	ELECTROLYTIC CAP. 4.7μF/50V M H7	CE1JMASSL4R7
C766	CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZ30F103
C772	ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMASSL4R7
C773	ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMASSL4R7
C777	ELECTROLYTIC CAP. 4.7μF/50V M H7	CE1JMASSL4R7
C780	ELECTROLYTIC CAP. 4.7μF/50V M H7	CE1JMAVSL4R7
C781	ELECTROLYTIC CAP. 4.7μF/50V M H7	CE1JMAVSL4R7
C1015	ELECTROLYTIC CAP. 220µF/6.3V M or	CE0KMASDL221
	ELECTROLYTIC CAP 220µF/6.3V M	CE0KMASTL221
C1038	ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1039	CHIP CERAMIC CAP F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C1040	ELECTROLYTIC CAP 100µF/6.3V M or	CE0KMASDL101
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101
C1042	ELECTROLYTIC CAP 220µF/6.3V M H7	CE0KMAVSL221
C1070	CHIP CERAMIC CAP B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1071	CHIP CERAMIC CAP B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP(1608) B K 0.01µF/50V	CHD1JK30B103
C1201	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1202	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1205	CHIP CERAMIC CAP CH J 220pF/50V or	CHD1JJBCH221
	CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
	CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C1206	CHIP CERAMIC CAP CH J 220pF/50V or	CHD1JJBCH221
	CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
	CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C1207	CHIP CERAMIC CAP. CH J 47pF/50V or	CHD1JJBCH470
	CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
	CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1208	CHIP CERAMIC CAP. CH J 47pF/50V or	CHD1JJBCH470
	CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
	CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1221	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMASSL100
C1222	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1223	CHIP CERAMIC CAP. B K 1000pF/50V or	CHD1JKB0B102
0.220	CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JK30B102
C1224	CHIP CERAMIC CAP. B K 1000pF/50V or	CHD1JKB0B102
O IZE I	CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JK30B102
C1245	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
J1270	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD15ZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V 01 CHIP CERAMIC CAP. (1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD15Z30F104
	CHIP CERAMIC CAP. (1608) F Z 0.1µF/25V or CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1EZ30F104 CHD1JZ3FZ104
C1246	'	_
U1240	CHIP CERAMIC CAP F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHID CEDAMIC CAD(4000) E 7.0 4 · E/E01/ -	CHD4 1730F404
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1JZ30F104 CHD1EZ30F104

Ref. No.	Description	Part No.
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1247	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1249	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C1350	CHIP CERAMIC CAP. B K 0.47μF/10V or	CHD1AKB0B474
	CHIP CERAMIC CAP.(1608) B K 0.47µF/10V	CHD1AK30B474
C1351	CHIP CERAMIC CAP. B K 0.1μF/25V or	CHD1EKB0B104
	CHIP CERAMIC CAP. B K 0.1µF/16V or	CHD1CKB0B104
	CHIP CERAMIC CAP.(1608) B K 0.1µF/25V or	CHD1EK30B104
	CHIP CERAMIC CAP (1608) B K 0.1µF/16V	CHD1CK30B104
C1353	CHIP CERAMIC CAP. B K 0.47μF/10V or	CHD1AKB0B474
0.000	CHIP CERAMIC CAP(1608) B K 0.47µF/10V	CHD1AK30B474
C1354	CHIP CERAMIC CAP. CH J 100pF/50V or	CHD1JJBCH101
0.00.	CHIP CERAMIC CAP(1608) CH J 100pF/50V or	CHD1JJ3CH101
	CHIP CERAMIC CAP. CG J 100pF/50V	CHD1JJ3CG101
C1355	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
01000	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
C1358	CHIP CERAMIC CAP. CH D 9pF/50V or	CHD1JDBCH9R0
J 1330	-	
C1394	CHIP CERAMIC CAP. CH D 9pF/50V ELECTROLYTIC CAP. 47µF/6.3V M H7	CHD1JD3CH9R0
C1394 C1395	ELECTROLYTIC CAP: 47μF/6.3V M F/	CE0KMASSL470 CE0KMASDL471
J 1395	'	
04.400	ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1402	PCB JUMPER D0.6-P5.0	JW5.0T
C1421	CHIP CERAMIC CAP B K 0.01µF/50V or	CHD1JKB0B103
0.1.00	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C1422	CHIP CERAMIC CAP. B K 0.1µF/25V or	CHD1EKB0B104
	CHIP CERAMIC CAP. B K 0.1μF/16V or	CHD1CKB0B104
	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
	CHIP CERAMIC CAP(1608) B K 0.1μF/16V	CHD1CK30B104
C1441	CHIP CERAMIC CAP. B K 0.33μF/10V or	CHD1AKB0B334
	CHIP CERAMIC CAP(1608) B K 0.33μF/10V	CHD1AK30B334
C1442	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1461	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C1462	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1481	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C1482	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1523	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C1524	ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C1531	CHIP CERAMIC CAP. B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1532	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C2002	CHIP CERAMIC CAP B K 1000pF/50V or	CHD1JKB0B102
	CHIP CERAMIC CAP B K 1000pF/50V	CHD1JK30B102
C2004	ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C2012	CHIP CERAMIC CAP. F Z 0.1μF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
	CONNECTORS	31 ID 10201 2104
CN11004		ICENIC22 IC004
CN1001	FMN CONNECTOR, SIDE 22P 22FMN-STRK or	JCFNG22JG004
CN11000	FPC/FFC CONNECTOR, 22P HLW22R-2C7	JCHWJ22JE001
CN1003	CONNECTOR BASE, 15P TUC-P15P-B1	J3TUA15TG001

Ref. No.	Description	Part No.	
CN1601	FMN CONNECTOR, TOP 16P 16FMN-BTK	JCFNG16JG001	
CN2001	FMN CONNECTOR, TOP 4P 04FMN-BTRK	JCFNG04JG002	
DIODES			
D019	RECTIFIER DIODE RL201	NDQZ000RL201	
D052	ZENER DIODE DZ-10BSBT265 or	NDTB00DZ10BS	
	ZENER DIODE MTZJT-7710B	QDTB00MTZJ10	
D071	PCB JUMPER D0.6-P7.5	JW7.5T	
D080	RECTIFIER DIODE 1N4005	NDQZ001N4005	
D081	RECTIFIER DIODE 1N4005	NDQZ001N4005	
D100	SWITCHING DIODE 1N4148M or	NDTZ01N4148M	
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133	
D101	SWITCHING DIODE 1N4148M or	NDTZ01N4148M	
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133	
D501	SWITCHING DIODE 1N4148M or	NDTZ01N4148M	
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133	
D555	LED MIE-534A2 or	NPZZM1E534A2	
	LED SIR-563ST3F P or	QPQPS1R563ST	
	LED SIR-563ST3F Q	QPQQS1R563ST	
D701	ZENER DIODE DZ-33BSDT265 or	NDTD00DZ33BS	
	ZENER DIODE MTZJT-7733D	QDTD00MTZJ33	
D702	ZENER DIODE DZ-6.8BSBT265 or	NDTB0DZ6R8BS	
	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8	
D1030	PCB JUMPER D0.6-P5.0	JW5.0T	
D1033	RECTIFIER DIODE 1N4005	NDQZ001N4005	
D1035	RECTIFIER DIODE 1N4005	NDQZ001N4005	
D1036	RECTIFIER DIODE 1N4005	NDQZ001N4005	
D1037	PCB JUMPER D0.6-P7.5	JW7.5T	
D1038	SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140	
	SCHOTTKY BARRIER DIODE ERB81-004	AERB81004***	
D1040	PCB JUMPER D0.6-P7.5	JW7.5T	
D1041	PCB JUMPER D0.6-P10.0	JW10.0T	
D1058	RECTIFIER DIODE 1N4005	NDQZ001N4005	
D1301	ZENER DIODE DZ-5.6BSBT265 or	NDTB0DZ5R6BS	
	ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6	
D2010	PCB JUMPER D0.6-P5.0	JW5.0T	
LED EXCL	USIVE(A)		
D564	LED(RED) 204HD/E	NPQZ00204HDE	
D565	LED(RED) 204HD/E	NPQZ00204HDE	
D566	LED(GREEN) 204-10GD/S957	NPQZ10GDS957	
D567	LED(GREEN) 204-10GD/S957	NPQZ10GDS957	
D2001	LED(GREEN) 204-10GD/S957	NPQZ10GDS957	
D2002	LED(GREEN) 204-10GD/S957	NPQZ10GDS957	
LED EXCL	. ,		
D564	LED(RED) LTL-4211N	NPQZLTL4211N	
D565	LED(RED) LTL-4211N	NPQZLTL4211N	
D566	LED(GREEN) LTL-4231N	NPQZLTL4231N	
D567	LED(GREEN) LTL-4231N	NPQZLTL4231N	
D2001	LED(GREEN) LTL-4231N	NPQZLTL4231N	
D2002	LED(GREEN) LTL-4231N	NPQZLTL4231N	
1000.	ICS	0070400615	
IC301	IC:Y/C/A LA71091M	QSZBA0RSY012	
IC501	MICROCONTROLLER 8BIT MN101D08EFD2	QSZAC0RMS006	
IC751	IC:SWITCH TC4053BF(N) or	QSMBA0STS002	
	IC:SWITCH BU4053BCF or	QSMDA0SRM010	
104665	IC:ANALOG MULTIPLEXERS CD4053BCSJX	NSZBA0TF3071	
IC1002	VOLTAGE REGULATOR PQ070XF01SZ	QSZBA0SSH026	
IC1004	VOLTAGE REGULATOR PQ070XF01SZ	QSZBA0SSH026	
IC1201	IC:OP AMP KIA4558P or	NSZBA0SJY004	
104	IC:OP AMP NJM4558D	QSZBA0SJR006	
IC1402	DRIVER FOR DVD MM1622XJBE	QSZBA0TMM085	

COILS L251 INDUCTOR 22μH-K-26T LAXKATTU20 L303 INDUCTOR (100μH K) LAP02TA101K LAXKATTU20 L304 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV007 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV005 L501 PCB JUMPER D0.6-P5.0 JW5.0T L503 INDUCTOR 17μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K ar LLBD00PKV005 CHOKE COIL 47μH-K ar LLBD00PKV005 CHOKE COIL 47μH-K ar LLBD00PKV005 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER	Ref. No.	Description	Part No.
1251 INDUCTOR 22μH-K-26T LLAXKATTU20 1303 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 1304 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 L421 INDUCTOR 47μH-K-SFT LLARKBSTU470 L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K-26T LLAXKATTU120 L503 INDUCTOR 12μH-K-26T LLAXKATTU477 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU477 L1431 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU474 L1441 CHIP RES.(1608) 1/10W0 Ω αr RRXAZRS20000 L1442 CHIP RES.(1608) 1/10W0 Ω αr RRXAZRS20000 L1442 CHIP RES.(1608)		-	
L303 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 L304 CHOKE COIL 47µH-K or LLBD00PKV0007 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K LLBD00PKV007 L421 INDUCTOR 47µH-K-6FT LLARKBSTU470 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47µH-K or LLBD00PKV007 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K or LLBD00PKV005 L701 INDUCTOR 14µH-K26T LLAXKATTU401 L701 INDUCTOR 14µH-K26T LLAXKATTU407 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1351 INDUCTOR (100µH K) LAP02TA01K LLAXKATTU401 L13351 INDUCTOR (100µH K) LAP02TA47K LLAXKATTU47 L14411 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L14411 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L14421 CHIP RES.(1608)	I 251		LLAXKATTU220
L304 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K LLBD00PKV005 CHOKE COIL 47μH-K LLBD00PKV005 L421 INDUCTOR 47μH-K-6FT LLARKBSTU470 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K er LLBD00PKV007 L503 INDUCTOR 12μH-K-26T LLAXKATTU42 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1030 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU47 L14401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L1461 CHIP RES.(1608) 1/10W 0 Ω or			
CHOKE COIL 47μH-K or CHOKE COIL 47μH-K CHOKE COIL 47μH-K LLBD00PKT001 L421 INDUCTOR 47μH-K-FFT LLARKBSTU470 L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K or LLBD00PKV007 L503 INDUCTOR 12μH-K-26T LLAXKATTU120 L503 INDUCTOR 12μH-K-26T LLAXKATTU4R7 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1351 INDUCTOR (10μH K) LAP02TA101K LLAXKATTU171 L1351 INDUCTOR(0.47μH K) LAP02TA471K LLAXKATTU471 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 THANSISTOR 47μH-K-5FT LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LTANISISTOR 84DF4M-T Q0520 RES. BUILT-IN TRANISISTOR RAPH-M-T Q0520 RES. BUILT-IN TRANISISTOR BAIF-4M-T Q0560 TRANISISTOR SCS380N-NPA-AT Q0570 TRANISISTOR SCS380N-NPA-AT Q0580 TRANISISTOR SCS380N-NPA-AT Q05900000000000000000000000000000000000			
CHOKE COIL 47μH-K LLBD00PKT001 L421 INDUCTOR 47μH-K-SFT LLARKBSTU470 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K LLBD00PKV005 CHOKE COIL 47μH-K LLBD00PKV005 L701 INDUCTOR 12μH-K-26T LLAKKATTU120 L701 INDUCTOR 4.7μH-K-26T LLAKKATTU120 L701 INDUCTOR 100,4-P5.0 JW5.0T L1039 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100,4-P),H K) LAP02TA101K LLAKKATTU101 L1351 INDUCTOR(10,4-P),H K) LAP02TAR47K LLAXKATTU47 L1401 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1441 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1442 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1481 CHIP RES.(1608) 1/10W Ω Ω RRXAZBSZ0000 CHIP RES.(1608) 1/	2004	a a a a pro-	
L421 INDUCTOR 47μH-K-5FT LLARKBSTU470 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K er LLBD00PKV005 L503 INDUCTOR 12μH-K-26T LLAXKATTU420 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1401 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU4101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU471 L1401 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1442 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1441 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1481 CHIP RES.(1608) 1/10W Ω Ω RRXAZRSZ0000 L1481 CHIP RES.(1608) 1/10W Ω Ω RRXAZBSZ0000		<u>'</u>	
L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K or LLBD00PKV005 L503 INDUCTOR 12µH-K-26T LLAXKATTU40 L701 INDUCTOR 47µH-K-26T LLAXKATTU47 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1351 INDUCTOR(100µH K) LAP02TA401K LLAXKATTU41 L1351 INDUCTOR(047µH K) LAP02TA471K LLAXKATTU41 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000	I 421	'	
L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47µH-K or LLBD00PKV0007 CHOKE COIL 47µH-K LLBD00PKV0005 CHOKE COIL 47µH-K LLBD00PKV0005 L503 INDUCTOR 12µH-K-26T LLAXKATTU120 L701 INDUCTOR 14,µH-K-26T LLAXKATTU4R7 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100µH K) LAP02TAR47K LLAXKATTU47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608)			
L502 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K LLBD00PKV005 CHOKE COIL 47μH-K LLBD00PKV005 L503 INDUCTOR 12μH-K-26T LLAXKATTU120 LT01 INDUCTOR 1-7μH-K-28T LLAXKATTU120 LT01 INDUCTOR 1-7μH-K-28T LLAXKATTU120 LT01 PCB JUMPER D0.6-PS.0 JW5.0T L1010 PCB JUMPER D0.6-PS.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1521 INDUCTOR 47μH-K-5FT LLARKBSTU470 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1521 INDUCTOR 47μH-K-5FT LLARKBSTU470 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1521 INDUCTOR 47μH-K-5FT LLARKBSTU470 RS. BUILTIN TRANSISTOR KRC103M or RRXAZB520000 L1521 INDUCTOR 47μH-K-5FT LLARKBSTU470 RS. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RS. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RS. BUILTIN TRANSISTOR KRC103M or NQS40KT03198 TRANSISTOR S2C536NF-NPA-AT QQS6C536NNPA TRANSISTOR RS20536NF-NPA-AT QQS6C536NNPA TRANSISTOR RS20536NF-NPA-AT QQS6C536NNPA TRANSISTOR RS20536NF-NPA-AT QQS6C536NNPA TRANSISTOR RS201815-BL(TPE2) QQS202SC1815 TRANSISTOR RS201815-BL(TPE2) QQS102SA1015 TRANSISTOR RS201815-BL(TPE2) QQS102SA1015 TRANSISTOR RS201815-BL(TPE2) QQS102SA1015 TRANSISTOR RS201815-BL(TPE2) QQS102SA1015 TRANSISTOR RTC3198(GR) or NQS40KT03193 TRANSISTOR RTC3198(GR) or NQS40KT03193 TRANSISTOR RTC3198(GR) or NQS40KT03193 TRANSISTOR RTC3198(GR) or NQS40KT03193 TRANSISTOR RTC3198(GR) or NQS40KT03198			
CHOKE COIL 47μH-K or CHOKE COIL 47μH-K CHOKE COIL 47μH-K CHOKE COIL 47μH-K LIBD00PKT001 LLAXKATTU120 LLAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU147 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU101 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZR5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1			
CHOKE COIL 47μH-K L503 INDUCTOR 12μH-K-26T L1AXKATTU120 L1701 INDUCTOR 17μH-K-26T L1AXKATTU120 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR (10μH K) LAP02TA101K L1351 INDUCTOR (10μH K) LAP02TA101K L1351 INDUCTOR (0.47μH K) LAP02TA74TK L1401 CHIP RES. (1608) 1/10W 0 Ω or CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000	2002	'	
L503 INDUCTOR 12μH-K-26T LLAXKATTU120 L701 INDUCTOR 4.7μH-K-26T LLAXKATTU4R7 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1421 INDUCTOR 47μH-K-5FT LLARKBSTU470 L201 INDUCTOR 47μH-K-5FT LLAXKATTU101 L201 INDUCTOR (10)μH K) LAP02TA101K LLAXKATTU401 TRANSISTOR KTC3198(Y) or		'	
L701 INDUCTOR 4.7μH-K-26T LLAXKATTU4R7 L1009 PCB JUMPER D0.6-PS.0 JW5.0T L1010 PCB JUMPER D0.6-PS.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU101 L1351 INDUCTOR(0.47μH K) LAP02TA47K LLAXKATTUR7 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608) 1/10W 0 Ω RRXA2R520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608) 1/10W 0 Ω RRXA2R520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2R520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2R520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608)	1503	'	
L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100µH K) LAP02TA747K LLAXKATTUR47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1521 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 L2001 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RES. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RES. BUILTIN T		'	
L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100μH K) LAPO2TA101K LLAXKATTU101 L1351 INDUCTOR(0.47μH K) LAPO2TAR47K LLAXKATTUR47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 INDUCTOR 47μH-K-5FT LLARKBSTU470 L2001 INDUCTOR (100μH K) LAPO2TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RES. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RES. BUILTIN TRANSISTOR SAC560N-NPA-AT or QQS5C536NNPA Q055 TRANSISTOR KTC3198(Y) or NQS40KTC3198 TRANSISTOR SC5636N-NPA-		'	
L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(0.47μH K) LAP02TAR47K LLAXKATTUR47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1444 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 RRXAZB5200			
L1351 INDUCTOR(0.47μH K) LAP02TAR47K LLAXKATTUR47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L14411 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L14421 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L14422 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZB5Z0000 L1521 INDUCTOR 47μH-K-5FT LLAKKSTU470 L1201 INDUCTOR (10μH K) LAP02TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILTIN TRANSISTOR KRC103M or NQSZ0KRC103M RES. BUILTIN TRANSISTOR KRC103M or NQSZ0KRC103M RES. BUILTIN TRANSISTOR BA1F4M-T QQSZ00BA1F4M Q055 TRANSISTOR KTC3198(R) or NQSY0KTC3198 TRANSISTOR S2C536NF-NPA-AT or QQSFC536NNPA TRANSISTOR S2C536NF-NPA-AT or QQSFC536NNPA TRANSISTOR S2C536NF-NPA-AT or NQSY0KTC3203 TRANSISTOR S2C2120-Y(TPE2) QQSY02SC2120 Q057 TRANSISTOR KTC3199(BL) or NQSS0KTC3199 TRANSISTOR S2C110-Y(TPE2) QQSY02SC2110 TRANSISTOR S2C110-Y(TPE2) QQSY02SC2185 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR KTC3193(Y) NQSY0KTC3193 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR KTC3198(Y) or NQSY0KTC3193 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR S2C360F-NPA-AT Or QQSFC360NIPA TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(Y) or NQSY0KTC3198			
L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω Or RRXAZR520000 CHIP RES.(1608) 1/10W 0 Ω Or RRXAZB520000 CHIP RES.(1608) 0 OR RRXAZB52000 CHIP RES.(1608) 0 OR RRXAZB52000 CHIP RES.(1608) 0 OR RRXAZB52000 CHIP RES.		` ' '	
CHIP RES.(1608) 1/10W 0 Ω or RRXAZR5Z0000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1521 INDUCTOR 47µH-K-5FT LLARKBSTU470 L2001 INDUCTOR 47µH-K-5FT LLARKBSTU470 L2001 INDUCTOR (100µH K) LAPOZTA101K LLAXKATTU101 TRANSISTOR KT03198 Nor NQSZOKRC103M RES. BUILTIN TRANSISTOR BA1F4M-T QQSZOBA1F4M Q052 RES. BUILTIN TRANSISTOR BA1F4M-T QQSZOBA1F4M Q055 TRANSISTOR KTC3198(GR) or NQSYOKTC3198 TRANSISTOR KTC3198(GR) or NQSYOKTC3198 TRANSISTOR SC2536NG-NPA-AT QQSC0SC536NNPA Q056 TRANSISTOR KTC3203(Y) or NQSYOKTC3203		` ' '	
L1441 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω RRXAZR5Z0000 L1442 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω RRXAZR5Z0000 L1461 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1521 INDUCTOR 47μ1-H-K-5FT LLARKBSTU470 L2001 INDUCTOR (100μH K) LAP02TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILT-IN TRANSISTOR KRC103M or NQSZ0KRC103M RES. BUILT-IN TRANSISTOR KRC103M or NQSZ0KRC103M RES. BUILT-IN TRANSISTOR BA1F4M-T QQSZ00BA1F4M Q055 TRANSISTOR KTC3198(R) or NQSY0KTC3198 TRANSISTOR S2C536NF-NPA-AT or QQSC536NNPA TRANSISTOR XC3198(R) or NQSY0KTC3198 TRANSISTOR S2C536NF-NPA-AT or QQSC536NNPA Q056 TRANSISTOR KTC329(Y) or NQSY0KTC3203 TRANSISTOR S2C5286NF-NPA-AT OR NQSY0KTC3203 TRANSISTOR S2C5286NF-NPA-AT OR NQSY0KTC3203 TRANSISTOR S2C2785(K) or NQSY0ZSC2120 Q057 TRANSISTOR KTC3199(BL) or NQSS0KTC3199 TRANSISTOR S2C2785(K) or QQSC22SC1815 TRANSISTOR SC1815-BL(TPE2) QQS202SC1815 Q301 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q302 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q303 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q304 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q305 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q306 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q307 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q308 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q309 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q301 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q302 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q303 TRANSISTOR KTC3198(Y) or NQSY0KTC3193 TRANSISTOR SSA1015-GR(TPE2) QQS102SA1015 Q421 TRANSISTOR KTC3198(Y) or NQSY0KTC3193 TRANSISTOR SC31015-GR(TPE2) QQS102SA1015 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR SC356NF-NPA-AT OR NQSY0KTC3198	L1401	, ,	
CHIP RES(1608) 1/10W 0 Ω or RRXAZR5Z0000 L1442 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1521 INDUCTOR 47µH-K-5FT LLARKBSTU470 L2001 INDUCTOR (100µH K) LAPO2TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILTIN TRANSISTOR KRC103M or NQSZOKRC103M RES. BUILTIN TRANSISTOR KRC103M or NQSZOKRC103M RES. BUILTIN TRANSISTOR KRC103M or NQSYOKTC3198 TRANSISTOR KTC3198(GR) or NQSYOKTC3198 TRANSISTOR KTC3198(GR) or NQS40KTC3198 TRANSISTOR S2SC336NF-NPA-AT or QQSC536NNPA Q056 TRANSISTOR KTC3198(GR) or NQSYOKTC3203 TRANSISTOR KTC3198(F) or NQSYOKTC3203 TRANSISTOR KTC3203(Y) or NQSYOKTC3193 Q057 TRANSISTOR KTC3199(BL) or NQSYOKTC3193 <td>I 1///1</td> <td>, ,</td> <td></td>	I 1///1	, ,	
L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZR5Z0000 RRXAZR5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZR5Z0000 RXXATTU101 LZ001 INDUCTOR 47µH-K-5FT LZ001 INDUCTOR 47µH-K-5T LZ0	L1441	, ,	
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Q424 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(GR) or NQS40KTC3198 TRANSISTOR 2SC536NF-NPA-AT or QQSFC536NNPA			
TRANSISTOR KTC3198(GR) or NQS40KTC3198 TRANSISTOR 2SC536NF-NPA-AT or QQSFC536NNPA	Q424		
TRANSISTOR 2SC536NF-NPA-AT or QQSFC536NNPA		. ,	
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Ref. No.	Description	Part No.
Q425	RES. BUILT-IN TRANSISTOR KRA103M or	NQSZ0KRA103M
	RES. BUILT-IN TRANSISTOR BN1F4M-T	QQSZ00BN1F4M
Q501	TRANSISTOR KTC3199(BL) or	NQS50KTC3199
	TRANSISTOR 2SC2785(K) or	QQSK02SC2785
	TRANSISTOR 2SC1815-BL(TPE2)	QQS202SC1815
Q506	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q563	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q565	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q566	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q567	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q760	RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q762	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q763	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1004	TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
-	TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q1005	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
2.500	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(J) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-T(TFE2) 01 TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1006	TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
≪ 1000	110 11010101010101010101010101010101010	1100101111207

Ref. No.	Description	Part No.
	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
	TRANSISTOR 2SA1175(H) or	QQSH02SA1175
	TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q1011	TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
	TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q1201	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1202	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1203	TRANSISTOR KTA1266(GR) or	NQS40KTA1266
	TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015
Q1204	TRANSISTOR KTA1266(GR) or	NQS40KTA1266
	TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015
Q1351	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1385	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
-	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q2001	RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q2002	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q2003	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
	RESISTORS	1 1 30.0.0
R056	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R057	CARBON RES. 1/6W J 150 Ω or	RCX4JATZ0102 RCX6JATZ0151
1.001	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R058	CHIP RES.(1608) 1/10W J 180 Ω or	RRXAJB5Z0181
	CHIP RES.(1608) 1/10W J 180 Ω	RRXAJR5Z0181
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Ref. No.	Description	Part No.
R060	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R061	CARBON RES. 1/6W J 1.2k Ω or	RCX6JATZ0122
11001	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R062	CARBON RES. 1/6W J 5.6k Ω or	RCX6JATZ0562
11002	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R063	PCB JUMPER D0.6-P5.0	JW5.0T
R073	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R075	CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
1075	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R087	CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
1007	CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R088	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R090	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R091	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R253		RRXAJB5Z0473
R200	CHIP RES.(1608) 1/10W J 47k Ω or	
DOE4	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473 RRXAJB5Z0222
R254	CHIP RES.(1608) 1/10W J 2.2k Ω or	
Dana	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R303	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
D004	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R304	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
D	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R305	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
Dana	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R306	CHIP RES.(1608) 1/10W J 18k Ω or	RRXAJB5Z0183
Daga	CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R309	CHIP RES.(1608) 1/10W J 15k Ω or	RRXAJB5Z0153
D011	CHIP RES.(1608) 1/10W J 15k Ω	RRXAJR5Z0153
R311	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
D040	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R312	CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122
Doto	CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R313	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
Dooo	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R322	CHIP RES.(1608) 1/10W J 5.6M Ω or	RRXAJB5Z0565
Dooo	CHIP RES.(1608) 1/10W J 5.6M Ω	RRXAJR5Z0565
R323	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
Dag /	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R324	CHIP RES.(1608) 1/10W J 82k Ω or	RRXAJB5Z0823
	CHIP RES.(1608) 1/10W J 82k Ω	RRXAJR5Z0823
R326	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
D	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R327	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R328	CHIP RES.(1608) 1/10W J 680k Ω or	RRXAJB5Z0684
	CHIP RES.(1608) 1/10W J 680k Ω	RRXAJR5Z0684
R329	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R330	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R331	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R332	CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R341	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R342	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R343	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R357	PCB JUMPER D0.6-P5.0	JW5.0T

Ref. No.	Description	Part No.
R391	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R392	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R395	PCB JUMPER D0.6-P5.0	JW5.0T
R397	CHIP RES.(1608) 1/10W J 220 Ω or	RRXAJB5Z0221
	CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R401	CHIP RES.(1608) 1/10W J 27k Ω or	RRXAJB5Z0273
	CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R402	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R407	CHIP RES.(1608) 1/10W J 2.2M Ω or	RRXAJB5Z0225
	CHIP RES.(1608) 1/10W J 2.2M Ω	RRXAJR5Z0225
R408	CHIP RES.(1608) 1/10W J 6.8k Ω or	RRXAJB5Z0682
	CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R409	CHIP RES.(1608) 1/10W J 3.3k Ω or	RRXAJB5Z0332
	CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R410	CHIP RES.(1608) 1/10W J 6.8k Ω or	RRXAJB5Z0682
	CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R411	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R412	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R413	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R414	CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R415	CHIP RES.(1608) 1/10W J 12k Ω or	RRXAJB5Z0123
	CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R416	CHIP RES.(1608) 1/10W J 330k Ω or	RRXAJB5Z0334
	CHIP RES.(1608) 1/10W J 330k Ω	RRXAJR5Z0334
R417	CHIP RES.(1608) 1/10W J 150 Ω or	RRXAJB5Z0151
D.110	CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R418	CHIP RES.(1608) 1/10W J 18k Ω or	RRXAJB5Z0183
D440	CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R419	CHIP RES.(1608) 1/10W J 910 Ω or	RRXAJB5Z0911
R421	CHIP RES.(1608) 1/10W J 910 Ω CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJR5Z0911 RRXAJB5Z0102
K421	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJB520102 RRXAJR5Z0102
R422	CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
11422	CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R424	CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
11424	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R425	CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
11420	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R426	CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
11120	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R428	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R429	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R453	CHIP RES.(1608) 1/10W J 27k Ω or	RRXAJB5Z0273
	CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R454	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R465	CHIP RES.(1608) 1/10W J 27k Ω or	RRXAJB5Z0273
	CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R466	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R502	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R503	CHIP RES.(1608) 1/10W J 820 Ω or	RRXAJB5Z0821
	CHIP RES.(1608) 1/10W J 820 Ω	RRXAJR5Z0821
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Ref. No.	Description	Part No.
R504	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R506	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R508	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R511	CHIP RES.(1608) 1/10W J 39k Ω or	RRXAJB5Z0393
	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R517	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R518	CHIP RES.(1608) 1/10W J 220k Ω or	RRXAJB5Z0224
	CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R521	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R522	PCB JUMPER D0.6-P5.0	JW5.0T
R523	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R524	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R525	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R526	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R527	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R528	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R529	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R530	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R531	CARBON RES. 1/6W G 4.7k Ω or	RCX6GATZ0472
	CARBON RES. 1/4W G 4.7k Ω	RCX4GATZ0472
R532	CARBON RES. 1/6W G 1.5k Ω or	RCX6GATZ0152
	CARBON RES. 1/4W G 1.5k Ω	RCX4GATZ0152
R533	CARBON RES. 1/6W G 22k Ω or	RCX6GATZ0223
	CARBON RES. 1/4W G 22k Ω	RCX4GATZ0223
R534	CARBON RES. 1/6W G 470 Ω or	RCX6GATZ0471
	CARBON RES. 1/4W G 470 Ω	RCX4GATZ0471
R535	CARBON RES. 1/6W G 10k Ω or	RCX6GATZ0103
	CARBON RES. 1/4W G 10k Ω	RCX4GATZ0103
R536	CARBON RES. 1/6W G 3.6k Ω or	RCX6GATZ0362
	CARBON RES. 1/4W G 3.6k Ω	RCX4GATZ0362
R537	CHIP RES.(1608) 1/10W J 33k Ω or	RRXAJB5Z0333
	CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R540	CHIP RES.(1608) 1/10W J 390k Ω or	RRXAJB5Z0394
	CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R541	CHIP RES.(1608) 1/10W J 390k Ω or	RRXAJB5Z0394
	CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R542	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R543	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R544	CHIP RES.(1608) 1/10W J 18k Ω or	RRXAJB5Z0183
	CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R545	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R546	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R551	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R561	CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R566	CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
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Ref. No.	Description	Part No.
	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R567	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R568	CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R570	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R573	CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R574	CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R575	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R576	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R583	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R590	CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
	CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R593	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R594	CHIP RES.(1608) 1/10W J 3.9k Ω or	RRXAJB5Z0392
	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R606	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R607	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R610	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R612	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R614	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R615	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R618	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R620	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R625	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R701	CHIP RES.(1608) 1/10W J 330 Ω or	RRXAJB5Z0331
	CHIP RES.(1608) 1/10W J 330 Ω	RRXAJR5Z0331
R702	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R703	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R704	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R705	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R707	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R751	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R752	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R753	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R756	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R757	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R777	CARBON RES. 1/6W J 27k Ω or	RCX6JATZ0273
	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273

Ref. No.	Description	Part No.
R778	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R779	CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R780	CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R782	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R783	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R784	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R785	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R786	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R787	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1025	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1044	CHIP RES.(1608) 1/10W J 220k Ω or	RRXAJB5Z0224
	CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R1059	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1068	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1076	CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
	CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R1077	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R1080	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1085	CHIP RES. 1/10W F 120 Ω or	RRXAFB5H1200
	CHIP RES. 1/10W F 120 Ω or	RRXAFB5Z1200
	CHIP RES. 1/10W F 120 Ω	RRXAFR5H1200
R1086	CHIP RES.(1608) 1/10W F 1.0k Ω or	RRXAFB5H1001
	CHIP RES.(1608) 1/10W F 1.0k Ω or	RRXAFB5Z1001
	CHIP RES.(100PPM) 1/10W F 1.0k Ω	RRXAFR5H1001
R1087	CHIP RES.(1608) 1/10W J 680 Ω or	RRXAJB5Z0681
	CHIP RES.(1608) 1/10W J 680 Ω	RRXAJR5Z0681
R1090	CHIP RES.(1608) 1/10W J 3.9k Ω or	RRXAJB5Z0392
	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R1091	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1203	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1204	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1205	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFB5H2002
	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFB5Z2002
	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFR5H2002
	CHIP RES.(1608) 1/10W F 20k Ω	RRXAFR5Z2002
R1206	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFB5H2002
	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFB5Z2002
	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFR5H2002
	CHIP RES.(1608) 1/10W F 20k Ω	RRXAFR5Z2002
R1207	CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R1208	CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R1209	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFB5H3002
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFB5Z3002
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5H3002
	CHIE KES.(1000) 1/1000 F 30K 12 0I	KKAAI KSI ISUUZ
	CHIP RES.(1608) 1/10W F 30k Ω	RRXAFR5Z3002

Ref. No.	Description	Part No.
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFB5Z3002
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5H3002
	CHIP RES.(1608) 1/10W F 30k Ω	RRXAFR5Z3002
R1211	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1212	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1221	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1222	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1223	CHIP RES.(1608) 1/10W J 470 Ω or	RRXAJB5Z0471
	CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1224	CHIP RES.(1608) 1/10W J 470 Ω or	RRXAJB5Z0471
	CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1225	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1226	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1233	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1235	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1236	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1237	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1238	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
200	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1239	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
200	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1240	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1245	CHIP RES.(1608) 1/10W J 10 Ω or	RRXAJB5Z0100
	CHIP RES.(1608) 1/10W J 10 Ω	RRXAJR5Z0100
R1351	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R1352	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
111002	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1353	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
111000	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1354	CHIP RES.(1608) 1/10W J 220 Ω or	RRXAJB5Z0221
111004	CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R1355	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
111333	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1356	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
11330	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1371	CHIP RES.(1608) 1/10W 3 100K 22 CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
KISTI	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
D1202	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1392	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
R1396	,	
D1207	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1397	CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
D1/02	CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R1402	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
D4.400	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1422	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
D4.440	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1442	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
D4440	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1443	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750

Dof No	Description	Dord No.
Ref. No.	Description	Part No.
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1462	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1482	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1612	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2001	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2002	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2003	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2005	CHIP RES.(1608) 1/10W J 6.8k Ω or	RRXAJB5Z0682
	CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R2006	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2028	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2031	CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
	CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R2051	CHIP RES.(1608) 1/10W J 3.9k Ω or	RRXAJB5Z0392
	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R2052	CHIP RES.(1608) 1/10W J 3.9k Ω or	RRXAJB5Z0392
	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R2053	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R2054	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R2055	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2056	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
112000	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2063	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
112000	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
	SWITCHES	TTTVAZITOZOOO
SW502	TACT SWITCH KSM0614B or	CCT0101UU012
30002		SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
CIA/EOO	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW503	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
014/504	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW504	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
014/505	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW505	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW511	LEAF SWITCH MXS01830MVP0	SSC0101MCE03
SW512	ROTARY MODE SWITCH SSS-50MD or	SSR0106KB002
	ROTARY MODE SWITCH R8100245	SSR0106U3002
SW2002	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2003	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
-	MISCELLANEOUS	
2B11	SHIELD ASSEMBLY H9200UD	0VM413279
2B15	BUSH, LED(F) H3700UD	0VM409508
2B33	HEATSINK H9400UD	0VM414786
2L013	SCREW, S-TIGHT M3X8 BIND + CHROME	GBMS3080
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Ref. No.	Description	Part No.
JC02	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
JK751	RCA JACK MSP-213V1-324 PBSN	JXRL030LY064
JK752	RCA JACK MSP-382V-14 PBSN	JXRL020LY074
JK753	RCA JACK(YELLOW) MSP-281V4-B	JXRL010LY003
JK755	RCA JACK(WHITE) MSP-281V1-B	JXRL010LY005
JK756	RCA JACK MSP-382V-12 PBSN	JXRL020LY063
JK1202	RCA JACK(BLACK) MSP-281V2-B	JXRL010LY062
JK1401	S TYPE JACK MDC-050V-2.4	JXEL040LY001
JK1403	RCA JACK MSP-213V1-652 PBSN	JXRL030LY061
RM2001	REMOTE RECEIVER MIM-93M6DKF or	USESJRSUNT01
	REMOTE RECEIVER PIC-37042LU	USESJRSKK033
TP301	PCB JUMPER D0.6-P10.0	JW10.0T
TP302	PCB JUMPER D0.6-P16.0	JW16.0T
TP502	PCB JUMPER D0.6-P5.0	JW5.0T
TP505	PCB JUMPER D0.6-P5.0	JW5.0T
TP506	PCB JUMPER D0.6-P14.0	JW14.0T
TP507	PCB JUMPER D0.6-P7.5	JW7.5T
TP513	PCB JUMPER D0.6-P10.0	JW10.0T
TP751	PCB JUMPER D0.6-P10.0	JW10.0T
TP753	PCB JUMPER D0.6-P7.5	JW7.5T
TP754	PCB JUMPER D0.6-P7.5	JW7.5T
TU701	TUNER UNIT VH025AP or	UTUNNTUSP024
	TUNER UNIT TMZH2-001A or	UTUNNTUAL030
	TUNER UNIT TMZH2-010B or	UTUNNTUAL034
	TUNER UNIT VH025AFE	UTUNNTUSP026
VR501	CARBON P.O.T. 100k Ω B	VRCB104HH014
W011	FFC CABLE, 22P FFC/P1.00/250	WX1H9400-011
W014	FFC CABLE, 16P FFC/P1.00/220	WX1H9400-014
W017	FFC CABLE, 4P FFC/P1.00/210	WX1H9400-017
X301	XTAL 3.579545MHz(20PPM) or	FXC355LLN003
	XTAL 3.579545MHz(20PPM) or	FXC355LCHE01
	XTAL 3.579545MHz(20PPM) or	FXC355LDS001
	XTAL 3.579545MHz(20PPM)	FXC355LDYN01
X502	XTAL 32.768kHz(20PPM) or	FXC323LQUA01
	XTAL 32.768kHz(20PPM) or	FXC323LDS002
	X'TAL 32.768kHz(20PPM)	FXC323LCHE01

FUNCTION CBA

Ref. No.	Description	Part No.	
	FUNCTION CBA(MCV-B) Consists of the following		
	DIODES		
LED EXCL	USIVE(A)		
D561	LED(RED) 204HD/E	NPQZ00204HDE	
LED EXCL	USIVE(B)		
D561	LED(RED) LTL-4211N	NPQZLTL4211N	
	RESISTORS		
R584	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000	
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000	
R585	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102	
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102	
R586	CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122	
	CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122	
R587	CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152	
	CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152	
R588	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222	
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222	
	SWITCHES		

Ref. No.	Description	Part No.
SW501	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW508	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW509	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW513	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW514	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
	MISCELLANEOUS	•
2B13	BUSH, LED(E) H1600UD	0VM408832
W104	PARALLEL WIRE, 3P AWG26#2651/P2.0/125	WX1H9400-104

DVD OPEN/CLOSE CBA

Ref. No.	Description	Part No.
	DVD OPEN/CLOSE CBA(MCV-C) Consists of the following	
	SWITCHES	
SW2001	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS		
W103	PARALLEL WIRE, 2P AWG26#2651/P2.0/100	WX1H9400-103

DVD SW CBA

Ref. No.	Description	Part No.
	DVD SW CBA(MCV-D) Consists of the following	
	SWITCHES	Т.
SW2005	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2006	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
	MISCELLANEOUS	
W105	PARALLEL WIRE, 3P AWG26#2651/P2.0/100	WX1H9400-105

SENSOR CBA

Ref. No.	Description	Part No.
	SENSOR CBA Consists of the following	0VSA13627
	TRANSISTORS	
Q503	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q504	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F

PSV CBA

Ref. No.	Description	Part No.
	PSV CBA Consists of the following	0VSA14711
	POWER SUPPLY CBA (PSV-A) JUNCTION CBA (PSV-B)	

POWER SUPPLY CBA

Ref. No.	Description	Part No.
	POWER SUPPLY CBA (PSV-A) Consists of the following	
	CAPACITORS	
C013	ELECTROLYTIC CAP. 10μF/50V M H7	CE1JMASSL100
C017	CERAMIC CAP. YV Z 0.01μF/50V	CCD1JZSYV103
C018	ELECTROLYTIC CAP. 470μF/25V M or	CE1EMASDL471
	ELECTROLYTIC CAP. 470μF/25V M	CE1EMASTL471
C020	ELECTROLYTIC CAP. 1000μF/16V M or	CE1CMZPDL102
	ELECTROLYTIC CAP. 1000μF/16V M	CE1CMZPTL102
C021	ELECTROLYTIC CAP. 470μF/10V M or	CE1AMASDL471
	ELECTROLYTIC CAP. 470μF/10V M	CE1AMASTL471
C1001A	METALLIZED FILM CAP. 0.022μF/275V K or	CT2E223HJE13
A	METALLIZED FILM CAP. 0.022μF/275V K or	CT2E223HJE05
A	METALLIZED FILM CAP. 0.022μF/250V K or	CT2E223DC011
A	METALLIZED FILM CAP. 0.022μF/250V M	CT2E223MS037
C1002	ELECTROLYTIC CAP. 22µF/50V M or	CE1JMASDL220
	ELECTROLYTIC CAP. 22μF/50V M	CE1JMASTL220
C1003	CERAMIC CAP. B K 0.01µF/500V	CCD2JKP0B103
C1004	ELECTROLYTIC CAP. 220µF/200V M	CA2D221S6008
C1005	CERAMIC CAP B K 120pF/500V	CCD2JKP0B121
C1006	SAFETY CAP. 3300pF/250V or	CCG2EMA0F332
A	SAFETY CAP. 3300pF/250V	CCD2EMA0E332
C1007	ELECTROLYTIC CAP. 1000µF/6.3V M or	CE0KMASDL102
	ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASTL102
C1008	CERAMIC CAP. B K 220pF/500V	CCD2JKP0B221
C1013	CERAMIC CAP(AX) X K 3300pF/16V	CCA1CKT0X332
C1014	ELECTROLYTIC CAP. 470μF/25V M or	CE1EMASDL471
	ELECTROLYTIC CAP. 470μF/25V M	CE1EMASTL471
C1022	CHIP CERAMIC CAP. B K 5600pF/50V	CHD1JK30B562
C1023	CERAMIC CAP. B K 470pF/100V	CCD2AKS0B471
C1029	CERAMIC CAP.(AX) X K 5600pF/16V	CCA1CKT0X562
C1032	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C1033	CERAMIC CAP. YV Z 0.022µF/50V	CCD1JZSYV223
	DIODES	
D013	RECTIFIER DIODE BA158 or	NDQZ000BA158
20.0	RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D015	SCHOTTKY BARRIER DIODE SB360	NDQZ000SB360
D016	SCHOTTKY BARRIER DIODE SB340	NDQZ000SB340
D018	ZENER DIODE DZ-8.2BSAT265 or	NDTA0DZ8R2BS
D010	ZENER DIODE MTZJT-778.2A	QDTA0MTZJ8R2
D020	PCB JUMPER D0.6-P5.0	JW5.0T
D030	RECTIFIER DIODE BA157 or	NDQZ000BA157
D030	FAST RECOVERY DIODE ERA18-04	QDPZ0ERA1804
D1001	RECTIFIER DIODE 1N4005	NDQZ001N4005
_	RECTIFIER DIODE 1N4005	
D1002		NDQZ001N4005
D1003	RECTIFIER DIODE 1N4005	NDQZ001N4005
D1004	RECTIFIER DIODE 1N4005	NDQZ001N4005
D1006	PCB JUMPER D0.6-P5.0	JW5.0T
D1007	CARBON RES. 1/4W J 68k Ω	RCX4JATZ0683
D1008	SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
	SCHOTTKY BARRIER DIODE ERB81-004	AERB81004***

Ref. No.	Description	Part No.
D1010	RECTIFIER DIODE BA158 or	NDQZ000BA158
	RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D1011	RECTIFIER DIODE BA158 or	NDQZ000BA158
	RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D1012	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1018	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1020	SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
	SCHOTTKY BARRIER DIODE ERB81-004	AERB81004***
D1022	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1024	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1025	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1031	PCB JUMPER D0.6-P5.0	JW5.0T
D1032	PCB JUMPER D0.6-P5.0	JW5.0T
	ICS	
IC1001A	PHOTOCOUPLER LTV-817B-F or	NPEB0LTV817F
A	PHOTOCOUPLER EL817B or	NPEB000EL817
A	PHOTOCOUPLER EL817C	NPEC000EL817
IC1006	IC:SHUNT REGULATOR KIA431-AT or	NSZLA0TJY001
	IC:SHUNT REGULATOR TL431A-TA or	NSZBA0TQ2003
	IC KIA431A-AT or	NSZBA0TJY018
	IC:SHUNT REGULATOR TL431-TA	NSZBA0TQ2002
	COILS	
L003	BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L009	CHOKE COIL 47µH-K or	LLBD00PKV007
	CHOKE COIL 47µH-K or	LLBD00PKV005
	CHOKE COIL 47µH-K	LLBD00PKT001
L1001	LINE FILTER 27MH TLF14CB2730R4 or	LLBG00ZTU034
A	LINE FILTER 27MH CSA-LF199A	LLBG00ZSA008
L1007	CHOKE COIL 47µH-K or	LLBD00PKV007
	CHOKE COIL 47µH-K or	LLBD00PKV005
	CHOKE COIL 47µH-K	LLBD00PKT001
L1020	CHOKE COIL 47µH-K or	LLBD00PKV007
	CHOKE COIL 47µH-K or	LLBD00PKV005
	CHOKE COIL 47µH-K	LLBD00PKT001
	TRANSISTORS	
Q1001	FET 2SK3543	QFWZ02SK3543
Q1003	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1008	TRANSISTOR KTC3199(Y)	NQSY0KTC3199
	RESISTORS	
R001	GLASS GLAZE RES. 1/2W J 3.3M Ω or	RXX2JZLZ0335
	CARBON RES. 1/2W J 3.3M Ω	RCX2335DP001
R037	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R082	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R1004	METAL OXIDE FILM RES. 2W J 82k Ω or	RN02JZLZ0823
-	METAL OXIDE FILM RES. 2W J 82k Ω	RN02JZQZ0823
R1005	CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1006	CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1008	CARBON RES. 1/4W G 1k Ω	RCX4GATZ0102
R1010	CARBON RES. 1/6W J 6.8k Ω or	RCX6JATZ0682
	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R1011	METAL OXIDE FILM RES. 1W J 0.68 Ω or	RN01R68ZU001
	METAL OXIDE FILM RES. 1W J 0.68 Ω	RN01R68KE009
R1019	CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5H2201
	CHIP RES.(1608) 1/10W F 2.2k Ω	RRXAFR5Z2201
R1020	CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
111020	O INEO.(1000) 1/1000 0 1.0N 22	IN CONTROLUTUR

Ref. No.	Description	Part No.
R1021	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1022	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1023	CHIP RES.(1608) 1/10W F 2k Ω or	RRXAFR5H2001
	CHIP RES.(1608) 1/10W F 2k Ω	RRXAFR5Z2001
R1024	CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1029	CARBON RES. 1/6W J 82k Ω or	RCX6JATZ0823
	CARBON RES. 1/4W J 82k Ω	RCX4JATZ0823
R1032	CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R1034	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R1035	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1036	CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1037	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1038	CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1039	CARBON RES. 1/6W J 470k Ω or	RCX6JATZ0474
	CARBON RES. 1/4W J 470k Ω	RCX4JATZ0474
R1043	METAL OXIDE FILM RES. 1W J 2.7 Ω or	RN01JZLZ02R7
	METAL OXIDE FILM RES. 1W J 2.7 Ω	RN01JZQZ02R7
R1095	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
	MISCELLANEOUS	'
AC1001	AC CORD A0A0280-007 or	WAC0172LTE04
A	AC CORD PB8K9F9110A-057 or	WAC0172LW008
A	AC CORD PB8B2F9110A-057 or	WAC0172LW011
A	AC CORD A0A0280-017 or	WAC0172LTE06
A	AC CORD WAC0172ADE01	WAC0172ADE01
F1001A	FUSE SIC 1A 250V U/C T or	PAGG20CW3102
A	FUSE 1A/250V	PAGG20CAG102
FH1001	FUSE HOLDER MSF-015	XH01Z00LY001
FH1002	FUSE HOLDER MSF-015	XH01Z00LY001
T001A	SWITCHING TRANSFOMER CSA-SW0276A	LTT00CPSA140
W101	PARALLEL WIRE, 8P AWG26#2651/P2.0/65	WX1H9400-101
W102	PARALLEL WIRE, 7P AWG26#2651/P2.0/50	WX1H9400-102

JUNCTION CBA

Ref. No.	Description	Part No.			
	JUNCTION CBA (PSV-B) Consists of the following				
CONNECTOR					
CN1005	CONNECTOR, 15P TUC-P15X-B1	JCTUS15TG001			

DECK PARTS LIST

Ref.No	Description	Part No.		
B2	CYLINDER ASSEMBLY MK12 NTSC 4HD	N1648CYL		
B3	LOADING MOTOR ASSEMBLY MK12	0VSA13665		
B8	PULLEY ASSEMBLY MK12	0VSA13500		
B9	MOVING GUIDE S PREPARATION MK12	0VSA13560		
B10	MOVING GUIDE T PREPARATION MK12	0VSA13562		
B11	LOADING ARM(TU) ASSEMBLY MK12	0VSA13300		
B12	LOADING ARM(SP) ASSEMBLY MK12	0VSA13299		
B31	AC HEAD ASSEMBLY MK12	0VSA13275		
B35	TAPE GUIDE ARM ASSEMBLY MK12	0VSA13277		
B37	CAPSTAN MOTOR 288/VCCM012	N9670CML		
	CAP BELT MK10	0VM411138		
B52		N9742FEL		
B73	FE HEAD ASSEMBLY MK11 or			
	FE HEAD ASSEMBLY MK11 or	N9743FEL		
	FE HEAD(MK11) MH-131SF11 or	DHVEC01Z0005		
	FE HEAD(MK11) VTR-1X2ERS11-148 or	DHVEC01TE004		
	FE HEAD(MK12) VTR-1X2ERS11-155 or	DHVEC01TE005		
	FE HEAD(MK12) HVFHP0047A	DHVEC01AL007		
B74	PRISM MK10	0VM202870		
B121	WORM MK12	0VM414091		
B126	PULLEY MK12	0VM414330B		
B133	IDLER GEAR MK12	0VM305738		
B134	IDLER ARM MK12	0VM305739		
B148	TG CAP MK11	0VM412972		
B300	C DRIVE LEVER(TU) MK12	0VM203773		
B303	F DOOR OPENER MK12 or	0VM203751C		
	F DOOR OPENER MK12	0VM203751		
B313	C DRIVE SPRING MK12	0VM414145		
B347	GUIDE HOLDER A MK10	0VM304920		
B354	SLIDER(TU) MK12	0VM101172F		
B355	SLIDER(SP) MK12 or	0VM101182F		
	SLIDER(SP) SUB ASSEMBLY MK12 or	0VDM12542		
	SLIDER(SP) MK12	0VM101182H		
B359	CLEANER LEVER MK10	0VM304413		
B360	CLEANER ROLLER MK9	0VM410032C		
B361	CL POST MK10	0VM411114		
B410	PINCH ARM(A) ASSEMBLY(4) MK12 or	0VSA13572		
B110	PINCH ARM(A) ASSEMBLY(5) MK12	0VSA13788		
B411	PINCH SPRING MK12	0VM414644		
B414	M BRAKE(SP) ASSEMBLY MK12	0VSA13282		
B416	M BRAKE(TU) ASSEMBLY MK12	0VSA13283		
B417	TENSION SPG(3002645) MK12	0VSA13283 0VM414221F		
	LOCK LEVER SPRING MK10			
B425		0VM411110		
B426	KICK PULLEY MK10	0VM411095		
B482	CASSETTE PLATE MK12	0VM203749		
B483	LOCK LEVER MK12	0VM414095		
B487	BAND BRAKE(SP) MK12	0VM305723		
B488	MODE LEVER MK12	0VM101173		
B491	CAM GEAR(A) MK12	0VM101174		
B492	MODE GEAR MK12	0VM203769		
B494	C DOOR OPENER MK12	0VM305719		
B499	T LEVER HOLDER MK12	0VM305729		
B501	WORM HOLDER MK12 or	0VM203767		
	WORM HOLDER(R) MK12	0VM204324		
B502	CAM GEAR(B) MK12	0VM305721		
B507	REEL WASHER MK9 5*2.1*0.5	0VM410058		
B508	S BRAKE SPRING MK10	0VM411121		

Ref.No	Description	Part No.		
B513	CAM WASHER MK12	0VM414741		
B514	SCREW RACK MK10 0VM411535			
B516	REEL WASHER MK9 5*2.1*0.5	0VM410058		
B520	TU BRAKE SPRING MK12	0VM414285		
B521	REV BRAKE SPRING MK12	0VM414222		
B522	TG POST ASSEMBLY MK11	0VSA12080		
B525	LDG BELT MK11	0VM412804		
B529	CLEANER ASSEMBLY MK10	0VSA11161		
B553	REV SPRING MK11	0VM412555		
B555	RACK ASSEMBLY MK12	0VSA13289		
B557	MOTOR PULLEY U5	0VM403205A		
B558	LOADING MOTOR M31E-1 R14 7352 or	MMDZB12MM005		
	LOADING MOTOR M31E-1 R-14 7376 or	MMDZB12MM003		
	LOADING MOTOR M31E-1 R-14 7377	MMDZB12MM006		
B559	CLUTCH ASSEMBLY MK12	0VSA13284		
B560	KICK SPRING MK10	0VM411475A		
B562	C DRIVE LEVER(SP) MK12	0VM203772		
B563	SLIDER SHAFT MK12	0VM305762		
B564	M GEAR MK12	0VM305735		
B565	SENSOR GEAR MK12	0VM305736		
B567	PINCH ARM(B) MK12	0VM305718		
B568	BT ARM MK12	0VM305728		
B570	CAM RACK SPRING(HI) MK11	0VM412923		
B571	P.S.W CUT 1.6X4.0X0.5T	0VM408485A		
B573	REEL(SP)(D2) MK12	0VM203755		
B574	REEL(TU)(D2) MK12	0VM203756		
B587	TENSION LEVER ASSEMBLY MK12	0VSA13279		
B590	BRAKE ARM(TU) MK12	0VM203752E		
B591	BAND BRAKE(TU) MK12	0VM305724C		
B592	TG POST MK11	0VM412550		
B593	CAM HOLDER(F) ASSEMBLY MK12	0VSA13390		
L1051	SCREW, B-TIGHT M2.6X6 PAN HEAD+	GPMB9060		
L1053	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	GCMS9080		
L1151	SCREW, SEMS M2.6X4 PAN HEAD+	CPM39040		
L1191	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	GCMS9080		
L1321	SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060		
L1341	SCREW, P-TIGHT M2X6 PAN HEAD+	GPMP2060		
L1406	AC HEAD SCREW MK9	0VM410964		
L1450	SCREW, SEMS M2.6X5 PAN HEAD+	CPM39050		
L1466	SCREW, S-TIGHT M2.6X6 BIND HEAD+	GBMS9060		
L1467	SCREW M2.6X5 WASHER HEAD+	SCM39050		



SERVICE MANUAL

Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's

Sec. 2: Deck Mechanism Section

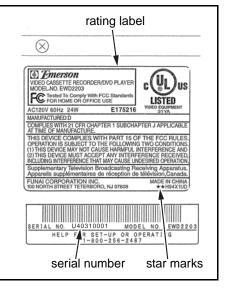
- Standard Maintenance
- Alignment for Mechanism
- Disassembly/Assembly of Mechanism
- Alignment Procedures of Mechanism

Sec. 3: Exploded views and Parts List Section

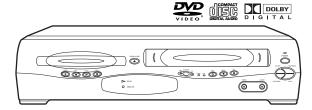
- Exploded views
- Parts List

This service manual is for the EWD2203 and EWD2003 Cost Down Version, which the serial numbers are later than U40310001 (EWD2203) or U44310001 (EWD2003).

These models differ from the models with the previous EWD2203 or EWD2003, and that star marks (\star) are printed on the rating label are their applicable models. For the rating label on the rear panel, refer to right (example: EWD2203).



DVD PLAYER & VIDEO CASSETTE RECORDER EWD2203 EWD2003







IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all Funai Equipment. The service procedures recommended by Funai and described in this service manual are effective methods of performing service operations. Some of these service special tools should be used when and as recommended.

It is important to note that this service manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Funai could not possibly know, evaluate and advice the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Funai has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Funai must first use all precautions thoroughly so that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

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MAIN SECTION

DVD PLAYER & VIDEO CASSETTE RECORDER EWD2203/EWD2003

Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's

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SPECIFICATIONS

< VCR Section >

Description	Unit	Minimum	Nominal	Maximum	Remark
1. Video					
1-1. Video Output (PB)	Vp-p	0.8	1.0	1.2	SP Mode
1-2. Video Output (R/P)	Vp-p	0.8	1.0	1.2	
1-3. Video S/N Y (R/P)	dB	40	45		SP Mode, W/O Burst
1-4. Video Color S/N AM (R/P)	dB	37	41		SP Mode
1-5. Video Color S/N PM (R/P)	dB	30	36		SP Mode
1-6. Resolution (PB)	Line	230	245		SP Mode
2. Servo					
2-1. Jitter Low	μsec		0.07	0.12	SP Mode
2-2. Wow & Flutter	%		0.3	0.5	SP Mode
3. Normal Audio					
3-1. Output (PB)	dBV	-9	-6	-3	SP Mode
3-2. Output (R/P)	dBV	-9	-6	-1.5	SP Mode
3-3. S/N (R/P)	dB	36	41		SP Mode
3-4. Distortion (R/P)	%		1.0	4.0	SP Mode
3-5. Freq. resp (R/P) at 200Hz	dB	-11	-4		SP Mode
(-20dB ref. 1kHz) at 8kHz	dB	-14	-4		SP Mode
4. Tuner					
4-1. Video output	Vp-p	0.8	1.0	1.2	E-E Mode
4-2. Video S/N	dB	39	42		E-E Mode
4-3. Audio output	dB	-10	-6	-2	E-E Mode
4-4. Audio S/N	dB	40	46		E-E Mode

Note: Nominal specs represent the design specs. All units should be able to approximate these – some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; In no case should a unit fail to meet limit specs.

1-1-1

H94X1SP

< DVD Section >

ITEM	CONDITIONS	UNIT	NOMINAL	LIMIT
1. Video Output	75 ohm load	Vpp	1.0	± 0.1
2. Coaxial Digital Out	75 ohm load	m∨pp	500	± 100
3. Audio (PCM)				
3-1. Output Level	1kHz 0dB	Vrms	2.0	
3-2. S/N		dB	100	
3-3. Freq. Response				
DVD fs=48kHz 20~22kHz		dB	± 0.5	
CD	fs=44.1kHz 20~20 kHz	dB	± 0.5	
3-4. THD+N				
DVD 1 kHz 0dB		%	0.05	
CD 1 kHz 0dB		%	0.003	

NOTES:

1. All Items are measured without pre-emphasis unless otherwise specified.

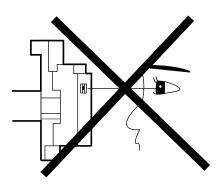
2. Power supply: AC120 V 60 Hz

3. Load imp. : 100 K ohm 4. Room ambient : +25 °C

1-1-2 H94X1SP

LASER BEAM SAFETY PRECAUTIONS

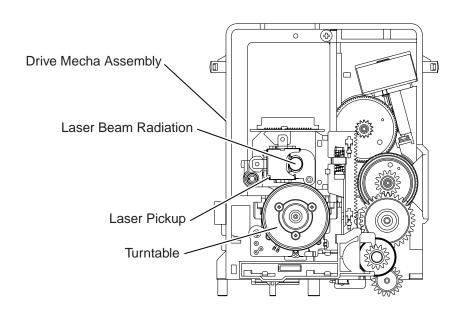
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

Caution: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



CAUTION
LASER RADIATION
WHEN OPEN. DO NOT
STARE INTO BEAM.

Location: Inside Top of DVD mechanism.

1-2-1 DVD_LASER

IMPORTANT SAFETY PRECAUTIONS

Product Safety Notice

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a A on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- **A.** Parts identified by the **\(\Lambda \)** symbol are critical for safety. Replace only with part number specified.
- **B.** In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.

 Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- C. Use specified internal wiring. Note especially:
 - 1)Wires covered with PVC tubing
 - 2)Double insulated wires
 - 3) High voltage leads
- **D.** Use specified insulating materials for hazardous live parts. Note especially:
 - 1)Insulation tape
 - 2)PVC tubing
 - 3)Spacers
 - 4)Insulators for transistors
- E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- **F.** Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- **G.** Check that replaced wires do not contact sharp edges or pointed parts.
- **H.** When a power cord has been replaced, check that 5 6 kg of force in any direction will not loosen it.

- I. Also check areas surrounding repaired locations.
- **J.** Be careful that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K. Crimp type wire connector

The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.

Replacement procedure

- 1)Remove the old connector by cutting the wires at a point close to the connector.
 - Important: Do not re-use a connector. (Discard it.)
- 2)Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
- 3)Align the lengths of the wires to be connected. Insert the wires fully into the connector.
- 4)Use a crimping tool to crimp the metal sleeve at its center. Be sure to crimp fully to the complete closure of the tool.
- L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

1-3-1 DVD_SFN1

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Clearance Distance (d) (d')
120 V	≥ 3.2mm (0.126 inches)

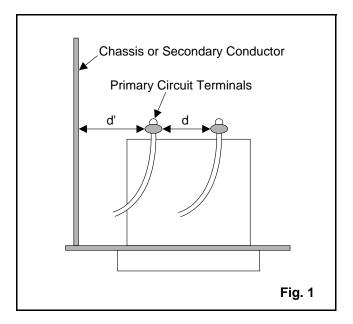
Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method (Power ON):

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.



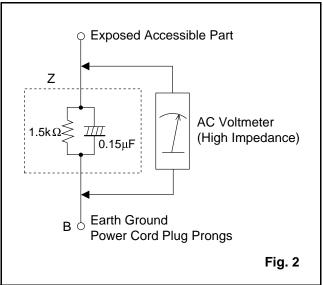


Table 2: Leakage current ratings for selected areas

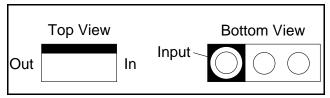
AC Line Voltage	Load Z	Leakage Current (i)	Earth Ground (B) to:
120 V	0.15μF CAP. & 1.5kΩ RES. Connected in parallel	i≤0.5mA Peak	Exposed accessible parts

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

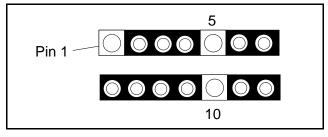
STANDARD NOTES FOR SERVICING

Circuit Board Indications

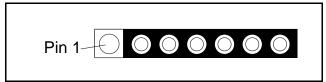
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

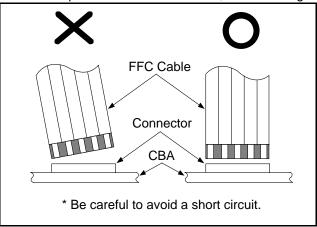


The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

- 1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
- 2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.

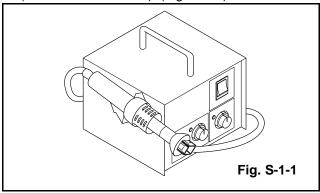


How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:.

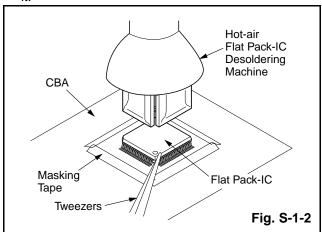
(1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)



- (2) Remove the flat pack-IC with tweezers while applying the hot air.
- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Caution:

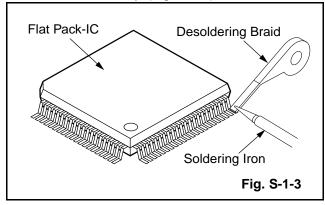
- Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
- The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.



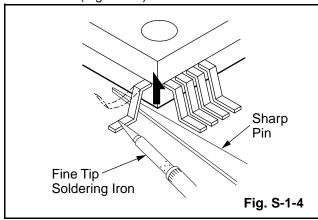
1-4-1 DVD NOTE

With Soldering Iron:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



(2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)



- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

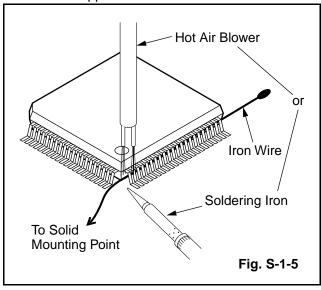
With Iron Wire:

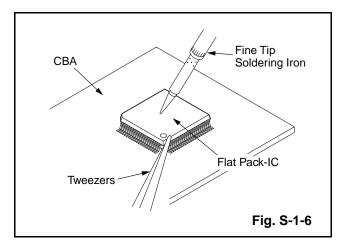
- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5

- (4) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note:

When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

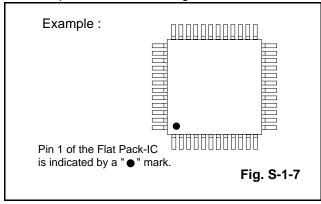


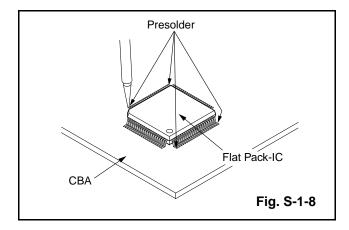


1-4-2

2. Installation

- (1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
- (2) The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
- (3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.





Instructions for Handling Semi-conductors

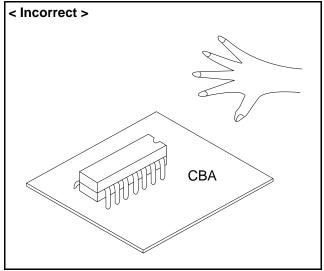
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

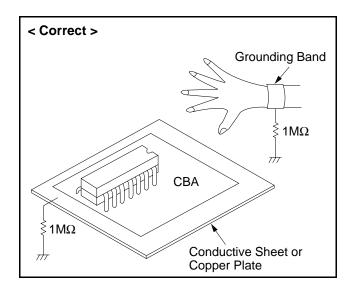
1. Ground for Human Body

Be sure to wear a grounding band $(1M\Omega)$ that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

(1) Be sure to place a conductive sheet or copper plate with proper grounding $(1M\Omega)$ on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.





1-4-3 DVD NOTE

PREPARATION FOR SERVICING

How to Enter the Service Mode

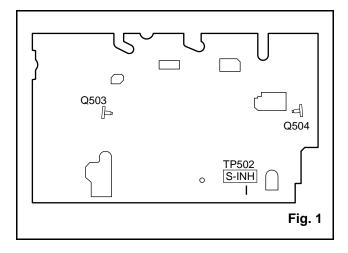
About Optical Sensors

Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

What to do for preparation

Insert a tape into the Deck Mechanism Assembly and press the PLAY button. The tape will be loaded into the Deck Mechanism Assembly. Make sure the power is on, connect TP502 (SENSOR INHIBITION) to GND. This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.) See Fig. 1.

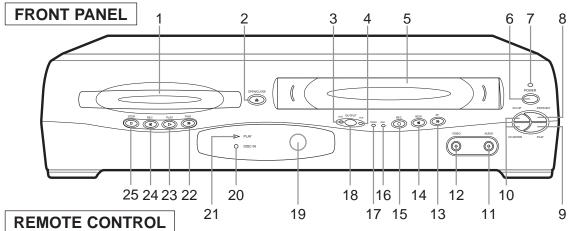


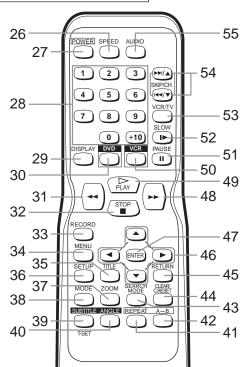
Note: Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

1-5-1 H9400PFS

OPERATING CONTROLS AND FUNCTIONS

[EWD2203]





1. Disc loading tray

2. OPEN/CLOSE Button

Press to insert discs into or remove them from the

3. DVD OUTPUT Light (Green)

This light appears when the DVD output mode is selected. You can only watch DVDs when the green DVD OUTPUT light is on. To make the green DVD OUTPUT light come on, press DVD on the remote control or OUTPUT on the front panel.

4. VCR OUTPUT Light (Green)

This light appears when the VCR output mode is selected. You can only watch tapes when the green VCR OUTPUT light is on. To make the green VCR OUTPUT light come on, VCR on the remote control or OUTPUT on the front panel.

5. CASSETTE COMPARTMENT

6. POWER Button

Press to turn the power on and off.

7. POWER Light (red)

Light appears when the power is on.

8. STOP/EJECT Button (VCR) **EJECT**

Press to remove the tape from the VCR. STOP

Press to stop the tape motion.

9. PLAY Button(VCR)

Press to begin playback.

10. CH-(UP/DOWN) Buttons

In VCR mode, press to change TV channels on the VCR; press to adjust the tracking during normal or slow motion playback; press to remove vertical jitter in a Still picture.

11. AUDIO În Jack

Connect an audio cable coming from the audio out jack of a camcorder, another VCR, or an audio source here.

12. VIDEO In Jack

Connect a video cable coming from the video out jack of a camcorder, another VCR, or a video source (laser disc player, camcorder, etc.) here.

13. FF Button (VCR)

Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search).

14. REW Button (VCR)

Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).

15. REC Button

Press once to start a recording. Press repeatedly to start a One-Touch Recording.

16. REC Light

Light appears during recording.

17. TIMER Light

Light appears when the DVD/VCR is in standby mode for a timer recording or during a One-Touch Recording. It flashes if T-SET is pressed for a timer recording, but there is no tape in the DVD/VCR. It flashes when all timer recordings or One-Touch Recordings are finished.

1-6-1 H94X1IB

18. OUTPUT Button

Press to select DVD mode or VCR mode.

You can switch the output mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to re-select the corresponding mode by pressing DVD or VCR on the remote control.

19. Remote Sensor Window

20. DISC IN Light (green)

Light appears when a disc is in the DVD Player.

21. PLAY Light (green)

Light appears during Disc playback.

22. FWD Button (DVD)

Press to fast forward the Disc. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the forward speed of slow motion.

Press to skip Chapters or Tracks.

23. PLAY Button (DVD)

Press to begin playback.

24. REV Button (DVD)

Press to view the DVD picture in fast reverse motion or to reverse playback of an Audio CD. Press to skip Chapters or Tracks.

25. STOP Button (DVD)

Stops operation of the disc.

26. SPEED Button

Press to select the VCR's recording speed (SP or SLP)

27. POWER Button

Press to turn the power on and off.

28. Number Buttons

DVD mode

Press to select numbered items in a menu.

+10

Use this button to enter number 10 and above.

VCR mode

Press to select TV channels on the VCR.

To select channels, enter channel numbers as a two-digit number for the quickest results. For example, to select channel 6, press 0 then 6.

29. DISPLAY Button

DVD mode

Press to access or remove the display screen during DVD or Audio CD playback.

VCR mode

Press to access or remove the VCR's on-screen status display.

30. DVD Button

Press to select DVD mode for the remote control.

You can switch the output mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to reselect the corresponding mode by pressing DVD or VCR on the remote control.

31. ◀◀ Button

DVD mode

Press to view the DVD picture in fast reverse motion. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the reverse speed of slow motion.

VCR mode

Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).

32. STOP Button

DVD mode

Press to stop the disc motion.

VCR mode

Press to stop the tape motion.

33. RECORD Button

Press once to start a recording.

34. MENU Button

DVD mode

Press to display the menu of the Disc.

VCR mode

Press to access the VCR menu.

35. TITLE Button

36. SETUP Button

Press to enter DVD player setup mode.

37. ZOOM Button

Enlarges part of a DVD-reproduced image.

38. MODE Button

Activates program playback or random playback mode when playing CDs or MP3. Sets Black level and virtual surround.

39. SUBTITLE Button

Press to select the desired subtitle language.

T-SET Button

Press to put the VCR into standby mode for a timer recording.

40. ANGLE Button

Press to change the camera angle to see the sequence being played back from a different angle.

41. REPEAT Button

Repeats playback of the current disc, title, chapter or track.

42. A-B REPEAT Button

Repeats playback of a selected section.

43. SEARCH MODE Button

DVD mode

Press to access or remove the Search display, which allows you to go directly to a specific Title/Chapter/Track/Time.

VCR mode

Press to perform a Time Search or an Index Search.

44. CLEAR/C.RESET Button

DVD mode

Press to reset the setting.

VCR mode

Press to reset the counter. Press to exit from the MENU screen.

45. RETURN Button

DVD mode

Returns to the previous operation.

46. Arrow Buttons

Use when making settings while watching the display on a TV screen.

DVD mode

Moves the cursor and determines its position.

VCR mode

▼/▲ Buttons

Press to enter digits when setting program (For example: setting clock or timer program). Press to select the setting modes from the on screen menu.

▶ Button

When setting program (For example: setting clock or timer program), press to determine your selection and proceed to the next step you want to input. Press to determine the setting modes from the on screen menu. Press to add or delete channel numbers during channel preset.

1-6-2 H94X1IB

⋖Button

Press to cancel a setting of timer program. Press to correct digits when setting program (For example: setting clock or timer program). Press to add or delete channel numbers during channel preset.

47. ENTER Button

DVD mode

Press to accept a setting.

48. **▶▶** Button

DVD mode

Press to fast forward the Disc. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the forward speed of slow motion.

VCR mode

Press to rapidly advance the tape, or view the picture rapidly in forward during playback (Forward Search).

49. PLAY Button

DVD mode

Press to begin playback.

VCR mode

Press to begin playback.

50. VCR Button

Press to select VCR mode for the remote control.

•You can switch the OUTPUT mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to re-select the corresponding mode by pressing DVD or VCR on the remote control.

51. PAUSE Button

DVD mode

Press to pause Disc playback. Press repeatedly to advance the DVD picture step by step (or one frame at a time).

VCR mode

While recording, press to temporarily stop the recording (pause). Press a second time to resume normal recording. You can not pause a One-Touch Recording. Or, press during tape playback to freeze the picture. Press to advance the picture one frame at a time during still mode.

52. SLOW Button

During tape playback, press to view the video tape in slow motion. To return to playback, press PLAY. This button does not affect DVD playback.

53. VCR/TV Button

Use to select VCR or TV position.

VCR Position

To view playback, to monitor video recording or to watch TV using the VCR tuner.

TV Position

To watch TV or to view one program while recording another.
54. SKIP/CH. Buttons

DVD mode

Press to skip Chapters or Tracks.

VCR mode

Press to change TV channels on the VCR.

55. AUDIO Button

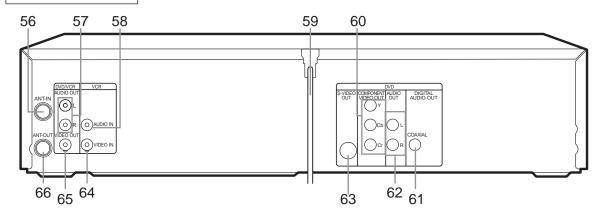
Press to select a desired audio language or sound mode.

Notes

- To use the remote control to operate the DVD/VCR COMBINATION UNIT and its features, press DVD on the remote control before pressing other DVD operation button. Verify that the green DVD OUTPUT Light
- To use the remote control to operate the VCR and its features, press VCR on the remote control before pressing other VCR operation button. Verify that the green VCR OUTPUT Light is on.

1-6-3 H94X1IB

REAR VIEW



56. ANT-IN (Antenna In) Jack

Connect your antenna, Cable Box, or Satellite decoder box.

57. DVD/VCR AUDIO OUT Jacks

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment.

58. AUDIO IN Jack

Connect an audio cable coming from the audio out jack of a camcorder, another VCR, or an audio source here.

59. AC Power Cord

Connect to a standard AC outlet to supply power to the DVD/VCR COMBINATION UNIT.

DVD Playback only

60. COMPONENT VIDEO OUT Jacks

Connect optional component video cables here and to the component Video In jacks of a television.

61. COAXIAL Jack

Connect an optional coaxial digital audio cable here and to the Coaxial Digital Audio In jack of a decoder or audio receiver.

62. DVD ANALOG AUDIO OUT Jacks

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment (DVD only).

63. S-VIDEO OUT Jack

Connect an optional S-Video cable here and to the S-Video In jack of a television. (DVD only).

64. VIDEO IN Jack

Connect a cable coming from the video out jack of a camcorder, another VCR, or an audio-visual source (laser disc player, video disc player, etc.) here.

65. DVD/VCR VIDEO OUT Jack

Connect the yellow video cable (supplied) here and to the TV's Video In jack.

66. ANT-OUT (Antenna Out) Jack

Use the supplied RF coaxial cable to connect this jack to the ANTENNA IN Jack on your TV.

Notes

 The S-VIDEO OUT jack, COAXIAL jack, and COM-PONENT VIDEO OUT jack are only useful in DVDmode.

Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the player.

LOADING THE BATTERIES

- 1. Open the battery compartment cover.
- 2. Insert two AA batteries (supplied), with each one oriented correctly.
- 3. Close the cover.

Notes

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

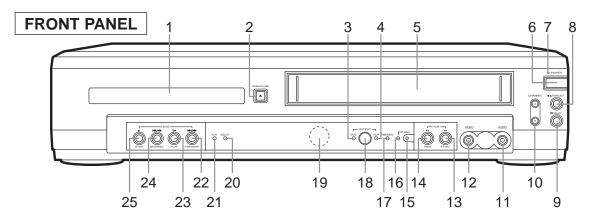




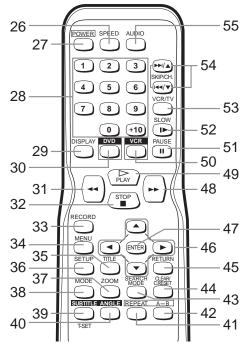


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[EWD2003]



REMOTE CONTROL



1. Disc loading tray

2. OPEN/CLOSE Button

Press to insert discs into or remove them from the tray.

3. DVD OUTPUT Light (Green)

This light appears when the DVD output mode is selected. You can only watch DVDs when the green DVD OUTPUT light is on. To make the green DVD OUTPUT light come on, press DVD on the remote control or OUTPUT on the front panel.

4. VCR OUTPUT Light (Green)

This light appears when the VCR output mode is selected. You can only watch tapes when the green VCR OUTPUT light is on. To make the green VCR OUTPUT light come on, VCR on the remote control or OUTPUT on the front panel.

5. Cassette compartment

6. POWER Button

Press to turn the power on and off.

7. POWER Light

This light appears when the power is on.

8. STOP/EJECT Button (VCR) EJECT

Press to remove the tape from the VCR.

STOP

Press to stop the tape motion.

9. PLAY Button(VCR)

Press to begin playback.

10. CHANNEĽ (▲/▼) Buttons

In VCR mode, press to change TV channels on the VCR; press to adjust the tracking during normal or slow motion playback; press to remove vertical jitter in a Still picture.

11. AUDIO In Jack

Connect audio cable coming from the audio out jack of a camcorder, another VCR, or an audio source here.

12. VIDEO In Jack

Connect a video cable coming from the video out jack of a camcorder, another VCR, or a video source (laser disc player, camcorder, etc.) here.

13. F.FWD Button (VCR)

Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search).

14. RÉW Button (VCR)

Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).

15. REC/OTR Button

Press once to start a recording. Press repeatedly to start a One-Touch Recording.

16. REC Light

Lights up during recording.

17. TIMER REC Light

This light appears when the DVD/VCR is in standby mode for a timer recording or during a One-Touch Recording. It flashes if T-SET is pressed for a timer recording, but there is no tape in the DVD/VCR. It flashes when all timer recordings or One-Touch Recordings are finished.

18. OUTPUT Button

Press to select DVD mode or VCR mode.

You can switch the output mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to reselect the corresponding mode by pressing DVD or VCR on the remote control.

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19. Remote Sensor Window

20. DISC IN Light (green)

Light appears when a disc is in the DVD Player.

21. PLAY Light (green)

Light appears during Disc playback.

22. FWD/SKIP Button (DVD)

Press this button during playback to fast forward the Disc. Press this button in PAUSE mode to slow forward the Disc. Press to skip Chapters or Tracks.

23. PLAY Button (DVD)

Press to begin playback.

24. SKIP/REV Button (DVD)

Press this button during playback to fast reverse the Disc. Press this button in PAUSE mode to slow reverse the Disc. Press to skip Chapters or Tracks.

25. STOP Button (DVD)

Stops operation of the disc.

26. SPEED Button

Press to select the VCR's recording speed (SP or SLP)

27. POWER Button

Press to turn the power on and off.

28. Number Buttons

DVD mode

Press to select numbered items in a menu.

+10

Use this button to enter number 10 and above.

VCR mode

Press to select TV channels on the VCR.

To select channels, enter channel numbers as a two-digit number for the quickest results. For example, to select channel 6, press 0 then 6.

29. DISPLAY Button

DVD mode

Press to access or remove the display screen during DVD or Audio CD playback.

VCR mode

Press to access or remove the VCR's on-screen status display.

30. DVD Button

Press to select DVD mode for the remote control.

You can switch the OUTPUT mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to reselect the corresponding mode by pressing DVD or VCR on the remote control.

31. ◀◀ Button

DVD mode

Press to view the DVD picture in fast reverse motion. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the reverse speed of slow motion.

VCR mode

Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).

32. STOP Button

DVD mode

Press to stop the disc motion.

VCR mode

Press to stop the tape motion.

33. RECORD Button

Press once to start a recording.

34. MENU Button

DVD mode

Press to display the menu of the Disc.

VCR mode

Press to access the VCR menu.

35. TITLE Button

36. SETUP Button

Press to enter DVD player setup mode.

37. ZOOM Button

Enlarges part of a DVD-reproduced image.

38. MODE Button

Activates program playback or random playback mode when playing CDs or MP3. Sets Black level and virtual surround.

39. SUBTITLE Button

Press to select the desired subtitle language.

T-SET Button

Press to put the VCR into standby mode for a timer recording.

40. ANGLE Button

Press to change the camera angle to see the sequence being played back from a different angle.

41. REPEAT Button

Repeats playback of the current disc, title, chapter or track

42. A-B REPEAT Button

Repeats playback of a selected section.

43. SEARCH MODE Button

DVD mode

Press to access or remove the Search display, which allows you to go directly to a specific Title/Chapter/Track/Time.

VCR mode

Press to perform a Time Search or an Index Search.

44. CLEAR/C.RESET Button

DVD mode

Press to reset the setting.

VCR mode

Press to reset the counter. Press to exit from the MENU screen.

45. RETURN Button

DVD mode

Returns to the previous operation in the DVD setup mode.

46. Arrow Buttons

Use when making settings while watching the display on a TV screen.

VCR mode

▼/▲ Buttons

Press to enter digits when setting program (For example: setting clock or timer program). Press to select the setting modes from the on screen menu.

▶Button

When setting program (For example: setting clock or timer program), press to determine your selection and proceed to the next step you want to input. Press to determine the setting modes from the on screen menu. Press to add or delete channel numbers during channel preset.

⋖Button

Press to cancel a setting of timer program. Press to correct digits when setting program (For example: setting clock or timer program). Press to add or delete channel numbers during channel preset.

47. ENTER Button

DVD mode

Press to accept a setting.

1-6-6 H94X1IB

48. **▶▶** Button

DVD mode

Press to fast forward the Disc. Press PAUSE, then press this button to begin slow motion playback. Press this button repeatedly to change the forward speed of slow motion.

VCR mode

Press to rapidly advance the tape, or view the picture rapidly in forward during playback (Forward Search).

49. PLAY Button

DVD mode

Press to begin playback.

VCR mode

Press to begin playback.

50. VCR Button

Press to select VCR mode for the remote control.

You can switch the OUTPUT mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to reselect the corresponding mode by pressing DVD or VCR on the remote control.

51. PAUSE Button

DVD mode

Press to pause Disc playback. Press repeatedly to advance the DVD picture step by step (or one frame at a time).

VCR mode

While recording, press to temporarily stop the recording (pause). Press a second time to resume normal recording. You can not pause a One-Touch Recording. Or, press during tape playback to freeze the picture. Press to advance the picture one frame at a time during still mode.

52. SLOW Button

During tape playback, press to view the video tape in slow motion. To return to playback, press PLAY.

53. VCR/TV Button

Use to select VCR or TV position.

VCR Position

To view playback, to monitor video recordings or to watch TV using the VCR tuner.

TV Position

To watch TV or to view one program while recording another.

54. SKIP/CH. Buttons

DVD mode

Press to skip Chapters or Tracks.

VCR mode

Press to change TV channels on the VCR.

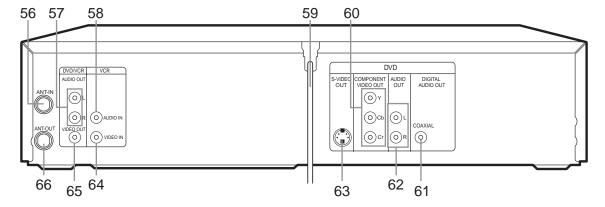
55. AUDIO Button

Press to select a desired audio language or sound mode.

Notes

- To use the remote control to operate the DVD/VCR COMBINATION UNIT and its features, press DVD on the remote control before pressing other DVD's operation buttons. Verify that the green DVD OUT-PUT Light is on.
- To use the remote control to operate the VCR and its features, press VCR on the remote control before pressing other VCR's operation buttons. Verify that the green VCR OUTPUT Light is on.

REAR VIEW



56. ANT-IN (Antenna In) Jack

Connect your antenna, Cable Box, or Satellite decoder

57. DVD/VCR AUDIO OUT Jacks

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment.

58. AUDIO IN Jack

Connect audio cable coming from the audio out jack of a camcorder, another VCR, or an audio source here.

59. AC Power Cord

Connect to a standard AC outlet to supply power to the DVD/VCR COMBINATION UNIT.

DVD Playback only

60. COMPONENT VIDEO OUT Jacks

Connect optional component video cables here and to the component Video In jacks of a television.

61. COAXIAL Jack

Connect an optional coaxial digital audio cable here and to the Coaxial Digital Audio In jack of a decoder or audio receiver.

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62. DVD ANALOG AUDIO OUT Jacks

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment (DVD only).

63. S-VIDEO OUT Jack

Connect an optional S-Video cable here and to the S-Video In jack of a television. (DVD only)

64. VIDEO IN Jack

Connect a cable coming from the video out jack of a camcorder, another VCR, or an audio-visual source (laser disc player, video disc player, etc.) here.

LOADING THE BATTERIES

1. Open the battery compartment cover.



2. Insert two AA batteries, with each one oriented correctly.



3. Close the cover.



Notes

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

65. DVD/VCR VIDEO OUT Jack

Connect the yellow video cable (supplied) here and to the TV's Video In jack.

66. ANT-OUT (Antenna Out) Jack

Use the supplied RF coaxial cable to connect this jack to the ANTENNA IN Jack on your TV.

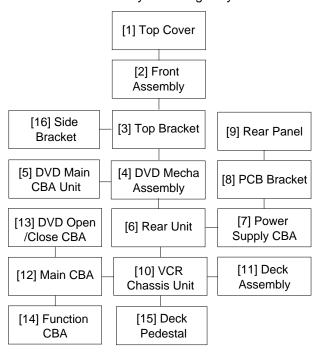
Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the player.

1-6-8 H94X1IB

CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/	ID/		REMOVAL		
ID/ LOC. No.	PART	Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note	
[1]	Top Cover	D1	7(S-1)		
[2]	Front Assembly	D2	(S-3), *7(L-1)	1 1-1 1-2	
[3]	Top Bracket	D2	4(S-2)	-	
[4]	DVD Mecha Assembly	D3	3(S-4), *CN401, *CN601,*CN302	-	
[5]	DVD Main CBA Unit	D4	2(S-5), *CN201, *CN301	2 2-1 2-2 2-3 3	
[6]	Rear Unit	D5	5(S-6), 3(S-7), (S-7A) CN1005	-	

ID/		REMOVAL			
LOC. No.	PART	Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note	
[7]	Power Supply CBA	D6	4(S-8)	-	
[8]	PCB Bracket	D6	3(S-9)	-	
[9]	Rear Panel	D6		-	
[10]	VCR Chassis Unit	D7	5(S-10), 4(S-11)	-	
[11]	Deck Assembly	D8	Desolder, 2(S-12)	4,5	
[12]	Main CBA	D8		-	
[13]	DVD Open/ Close CBA	D8	Desolder	-	
[14]	Function CBA	D8	Desolder	-	
[15]	Deck Pedestal	D9	7(S-13)	-	
[16]	Side Bracket	D9	(S-14)	-	
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)	

Note:

- (1): Identification (location) No. of parts in the figures
- (2): Name of the part
- (3): Figure Number for reference
- (4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

P=Spring, L=Locking Tab, S=Screw,

CN=Connector

*=Unhook, Unlock, Release, Unplug, or Desolder e.g. 2(S-2) = two Screws (S-2),

2(L-2) = two Locking Tabs (L-2)

(5): Refer to "Reference Notes."

1-7-1 H94X1DC

Reference Notes

CAUTION 1: Locking Tabs (L-1) are fragile. Be careful not to break them.

- 1-1. Remove Screw (S-3).
- 1-2. Release seven Locking Tabs (L-1) (to do this, first release five Locking Tabs (A) at the side and top, and then release two Locking Tabs (B) at the bottom.)

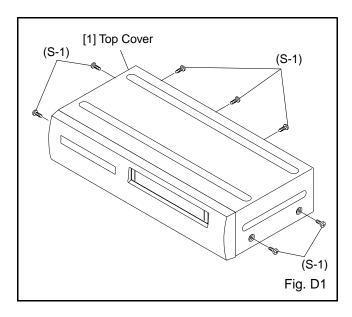
CAUTION 2: Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc., during unpacking or repair work.

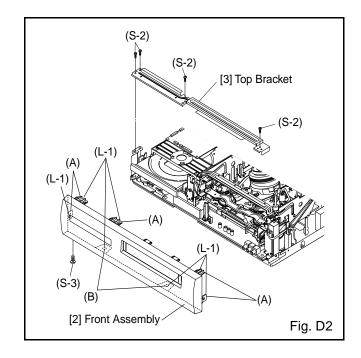
To avoid damage of pickup follow next procedures.

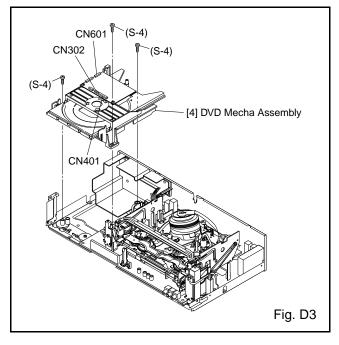
- 2-1. Slide the pickup unit as shown in Fig. D4.
- 2-2. Short the three short lands of FPC cable with solder before removing the FFC cable (CN301) from it. If you disconnect the FFC cable (CN301), the laser diode of pickup will be destroyed. (Fig. D4)
- 2-3. Disconnect Connector (CN201). Remove two Screws (S-5) and lift the DVD Main CBA Unit. (Fig. D4)

CAUTION 3: When reassembling, confirm the FFC cable (CN301) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. D4)

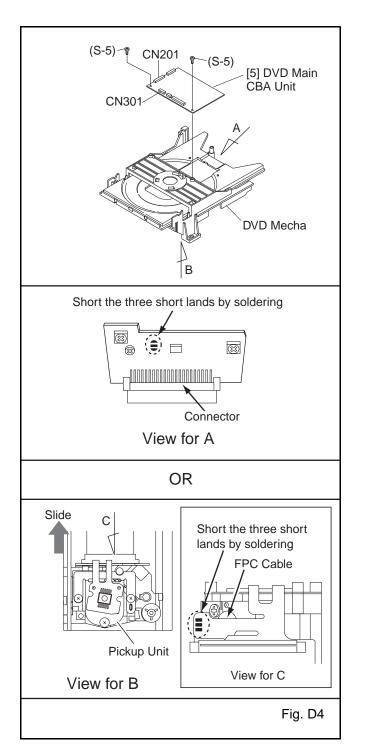
- 4. When reassembling, solder wire jumpers as shown in Fig. D8.
- 5. Before installing the Deck Assembly, be sure to place the pin of LD-SW on Main CBA as shown in Fig. D8. Then, install the Deck Assembly while aligning the hole of Cam Gear with the pin of LD-SW, the shaft of Cam Gear with the hole of LD-SW as shown in Fig. D8.

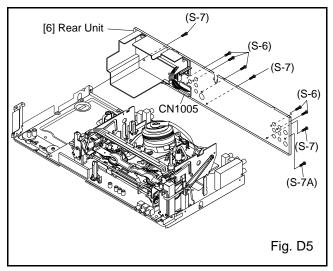


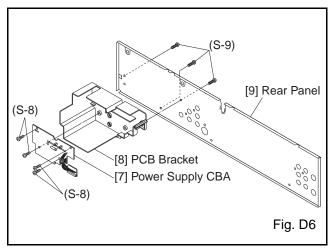


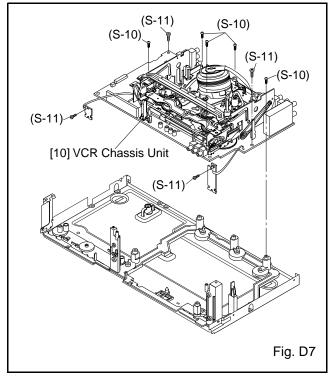


1-7-2 H94X1DC

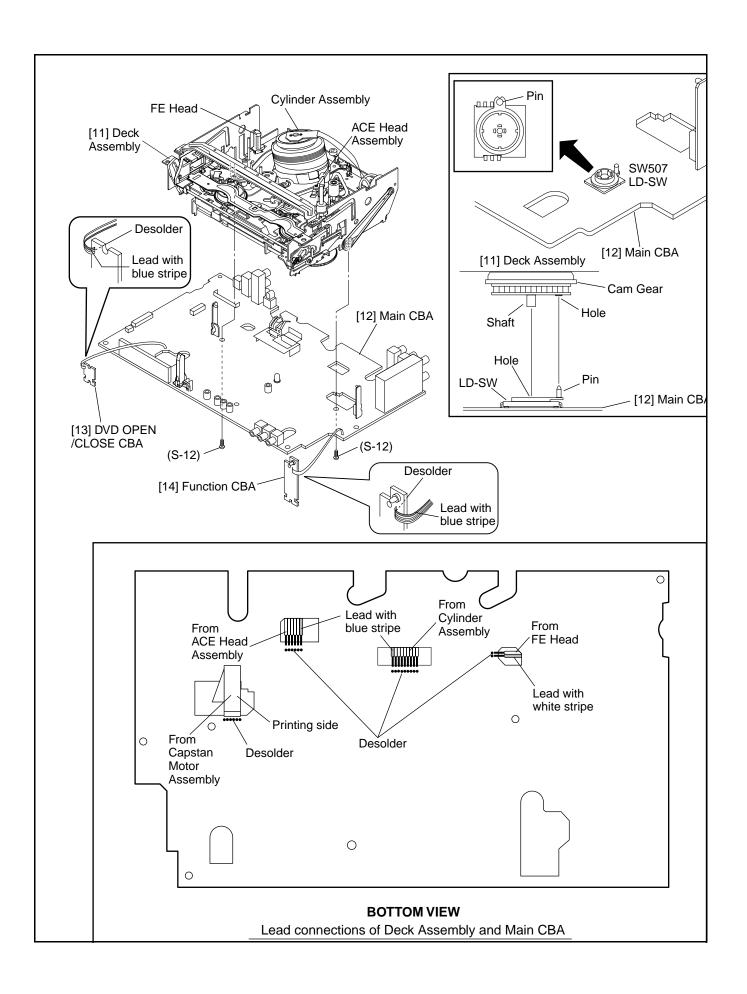


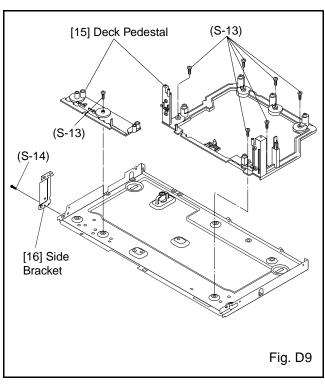


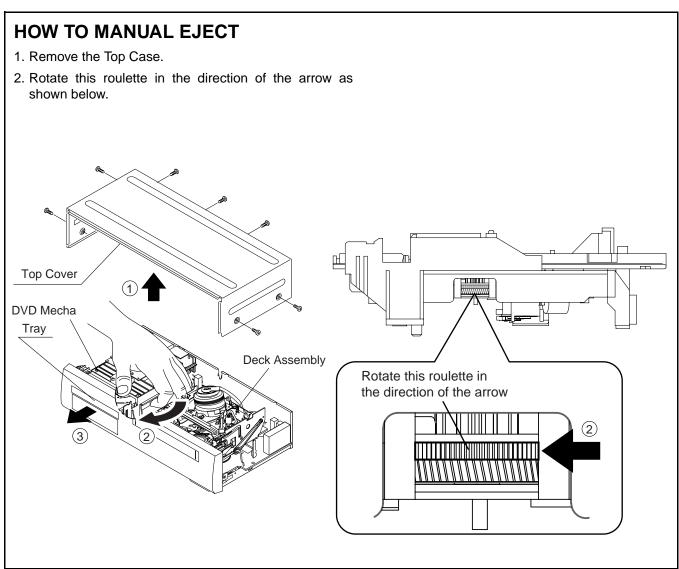




1-7-3 H94X1DC







ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: "CBA" is an abbreviation for "Circuit Board Assembly."

NOTE:

- 1.Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
- 2.To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press either "CHANNEL ▼" or "CHANNEL ▲" button on the front panel first, then the "PLAY" button on the front panel.

Test Equipment Required

1.Oscilloscope: Dual-trace with 10:1 probe,

V-Range: 0.001~50V/Div., F-Range: DC~AC-20MHz 2.Alignment Tape (FL8A)

Head Switching Position Adjustment

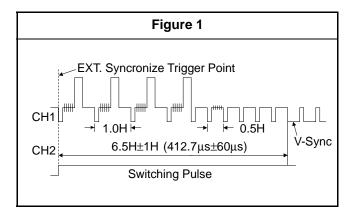
Purpose:

To determine the Head Switching point during playback.

Symptom of Misadjustment:

May cause Head Switching noise or vertical jitter in the picture.

Test point	Adj.Point	Mode	Input			
TP751(V-OUT) TP302(RF-SW) GND	VR501 (Switching Point) (MAIN CBA)	PLAY (SP)				
Таре	Tape Measurement Equipment Spec.					
FL8A Oscilloscope 6.5H±1H (412.7μs±60μ						
Connections of Measurement Equipment						
Main CBA GND TP302 CH1 CH2 Trig. (+)						



Reference Notes:

Playback the Alignment tape and adjust VR501 so that the V-sync front edge of the CH1 video output waveform is at the $6.5H(412.7\mu s)$ delayed position from the rising edge of the CH2 head switching pulse waveform.

1-8-1 H9400EA

FIRMWARE RENEWAL MODE

- 1. Turn the power on and remove the disc on the tray.
- To put the DVD player into version up mode, press [9], [8], [7], [6], and [SEARCH MODE] buttons on the remote control unit in that order. The tray will open automatically.

Fig. a appears on the screen and Fig. b appears on the VFD.

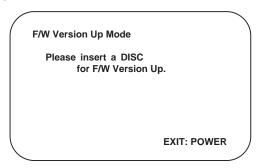


Fig. a Version Up Mode Screen

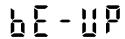


Fig. b VFD in Version Up Mode

The DVD player can also enter the version up mode with the tray open. In this case, Fig. a will be shown on the screen while the tray is open.

- 3. Load the disc for version up.
- 4. The DVD player enters the F/W version up mode automatically. Fig. c appears on the screen and Fig. d appears on the VFD.

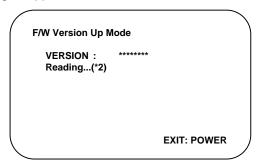


Fig. c Programming Mode Screen

1223

Fig. d VFD in Programming Mode (Example)

The appearance shown in (*2) of Fig. c is described as follows:

No.	Appearance	State
1	Reading	Sending files into the memory
2	Erasing	Erasing previous version data
3	Programming	Writing new version data

After programming is finished, the tray opens automatically. Fig. e appears on the screen and the checksum in (*3) of Fig. e appears on the VFD. (Fig. f)

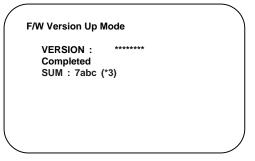


Fig. e Completed Program Mode Screen



Fig. f VFD upon Finishing the Programming Mode (Example)

At this time, no buttons are available.

- 6. Unplug the AC cord from the AC outlet. Then plug it again.
- 7. Turn the power on by pressing the power button and the tray will close.
- 8. Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.

Fig. g appears on the screen.

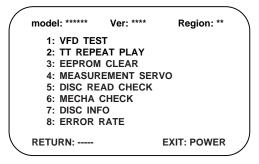
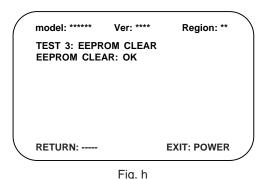


Fig. g

9. Press [3] button on the remote control unit. Fig. h appears on the screen.



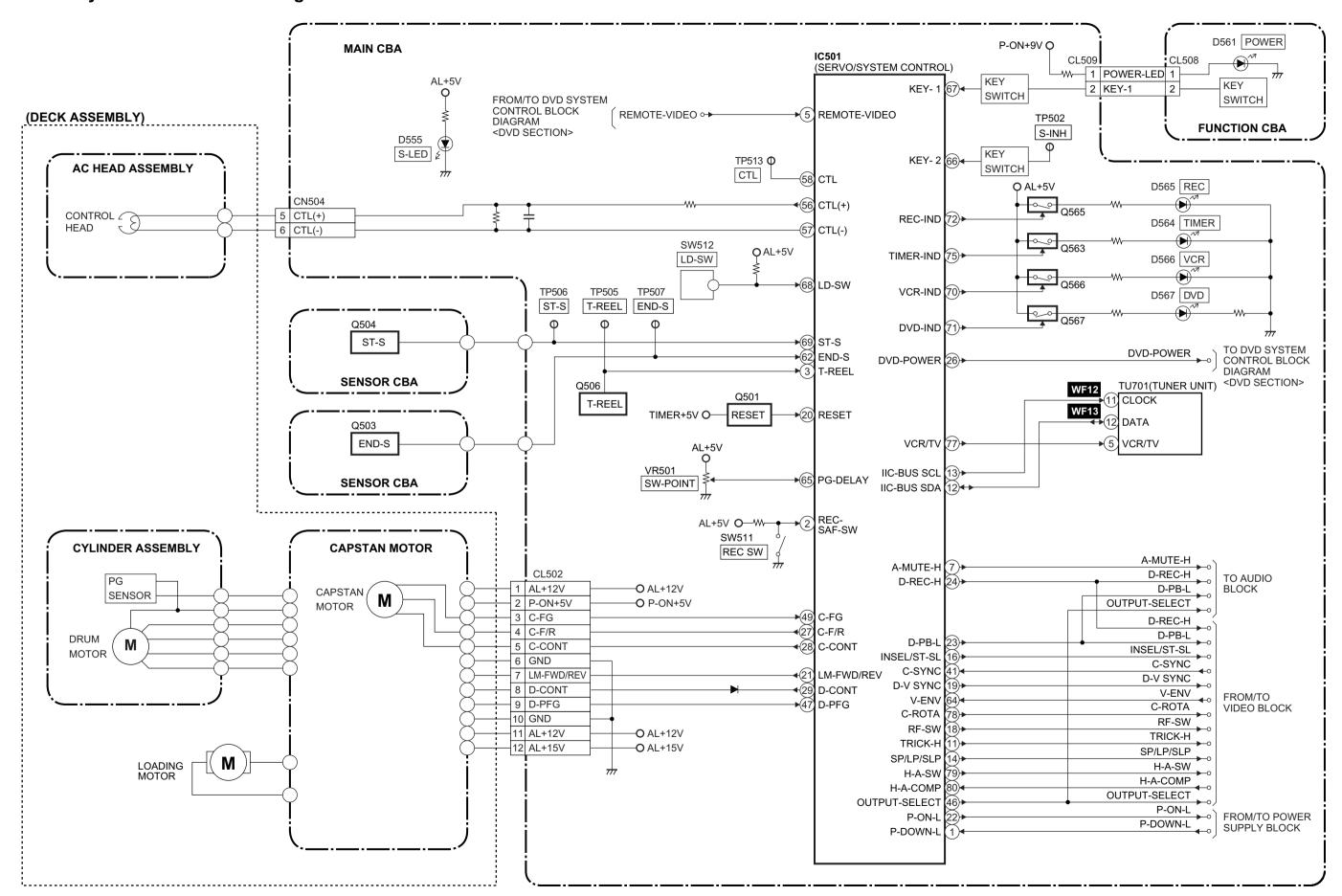
1 19. 1

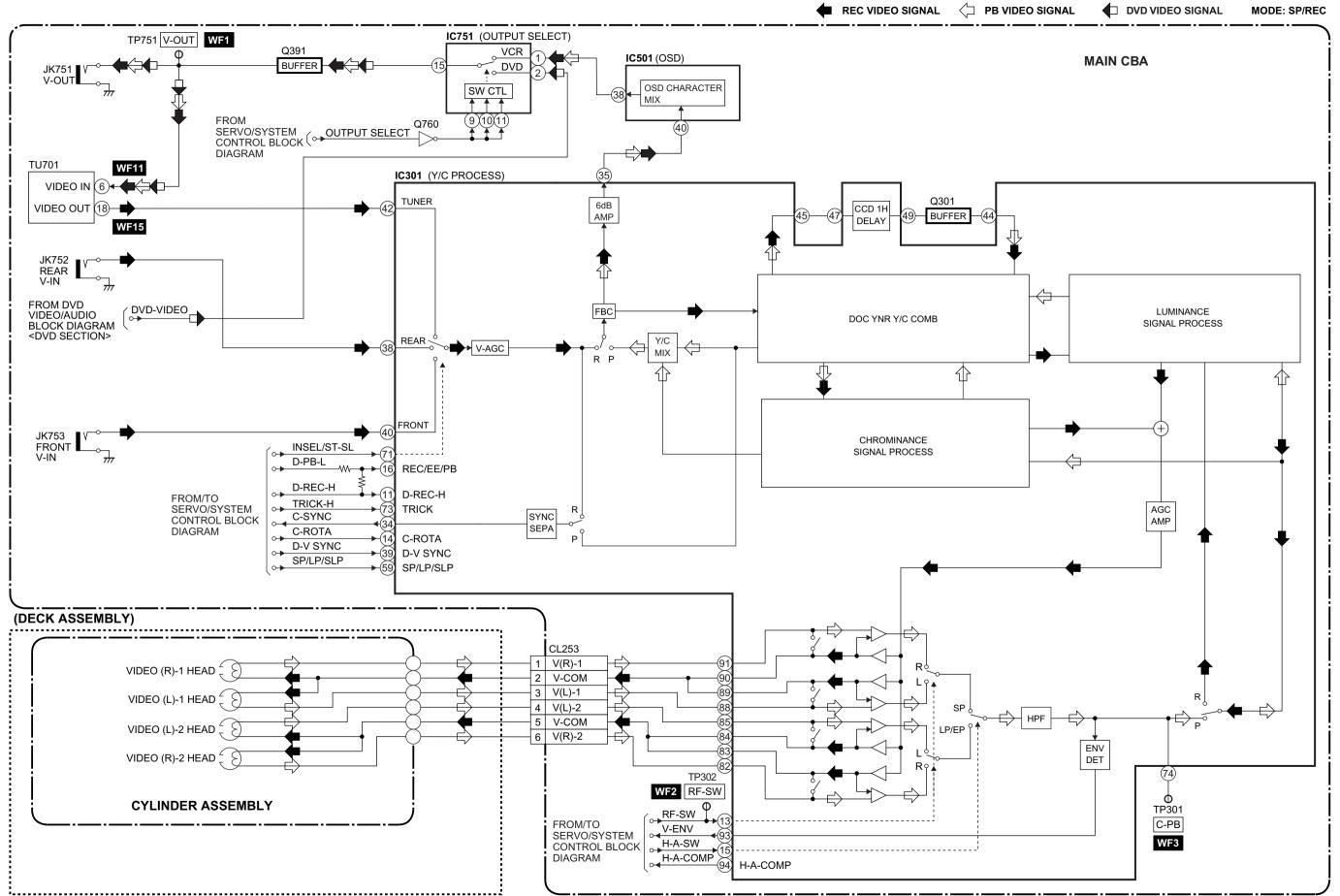
10. To finish this mode, press [POWER] button.

1-9-1 H9400TEST

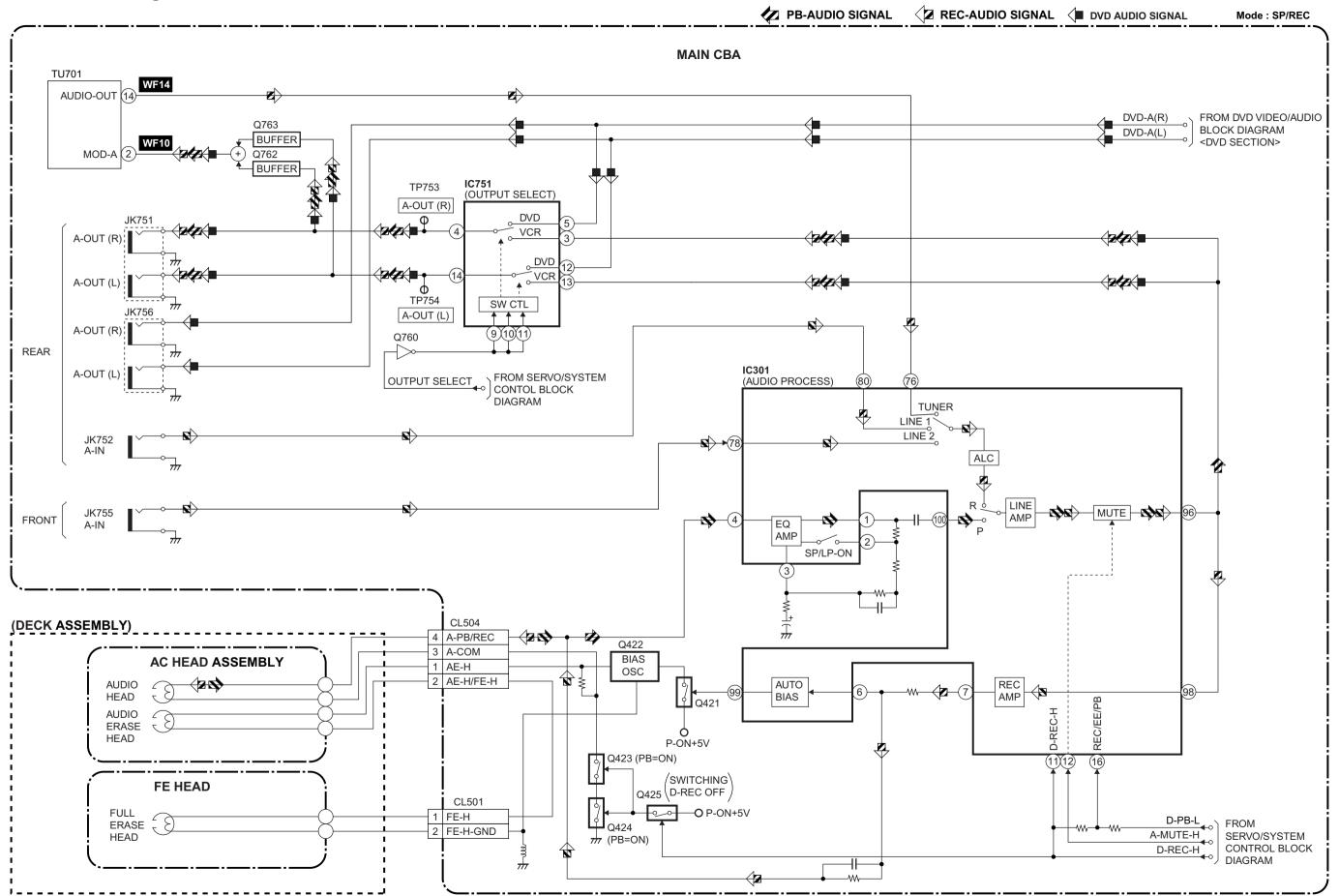
BLOCK DIAGRAMS < VCR SECTION>

Servo/System Control Block Diagram





1-10-4



1-10-6

Power Supply Block Diagram

NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

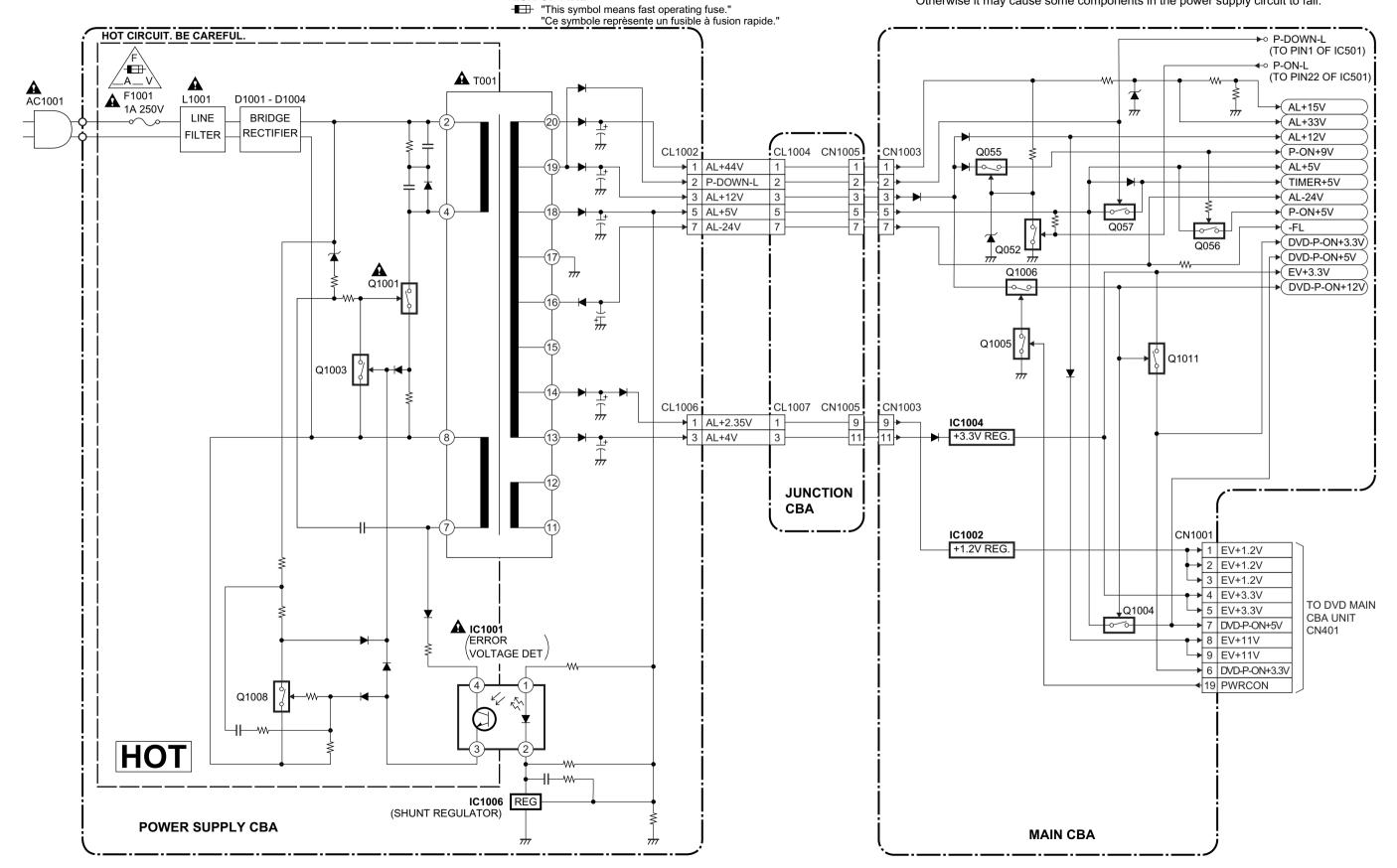


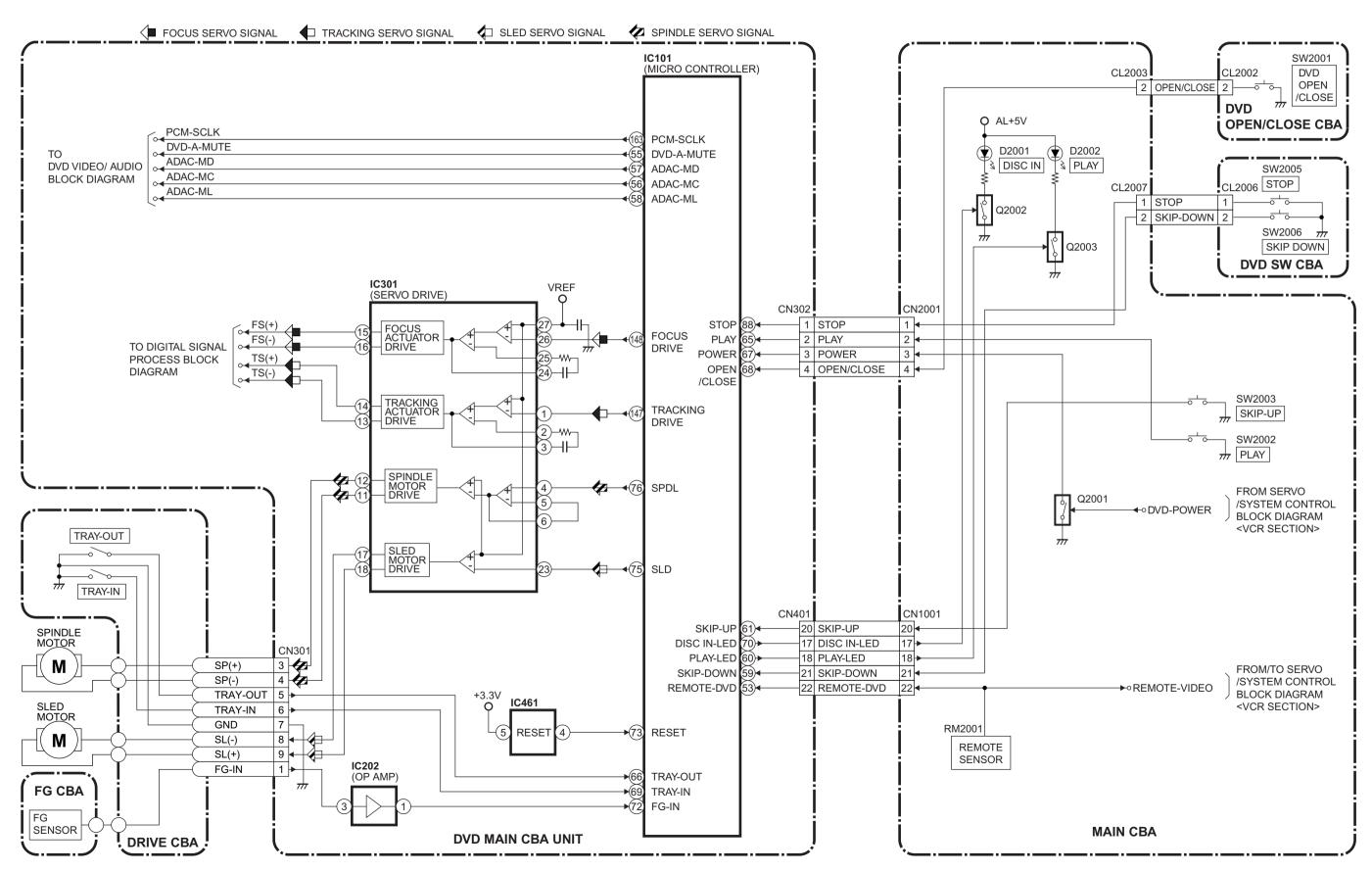
CAUTION

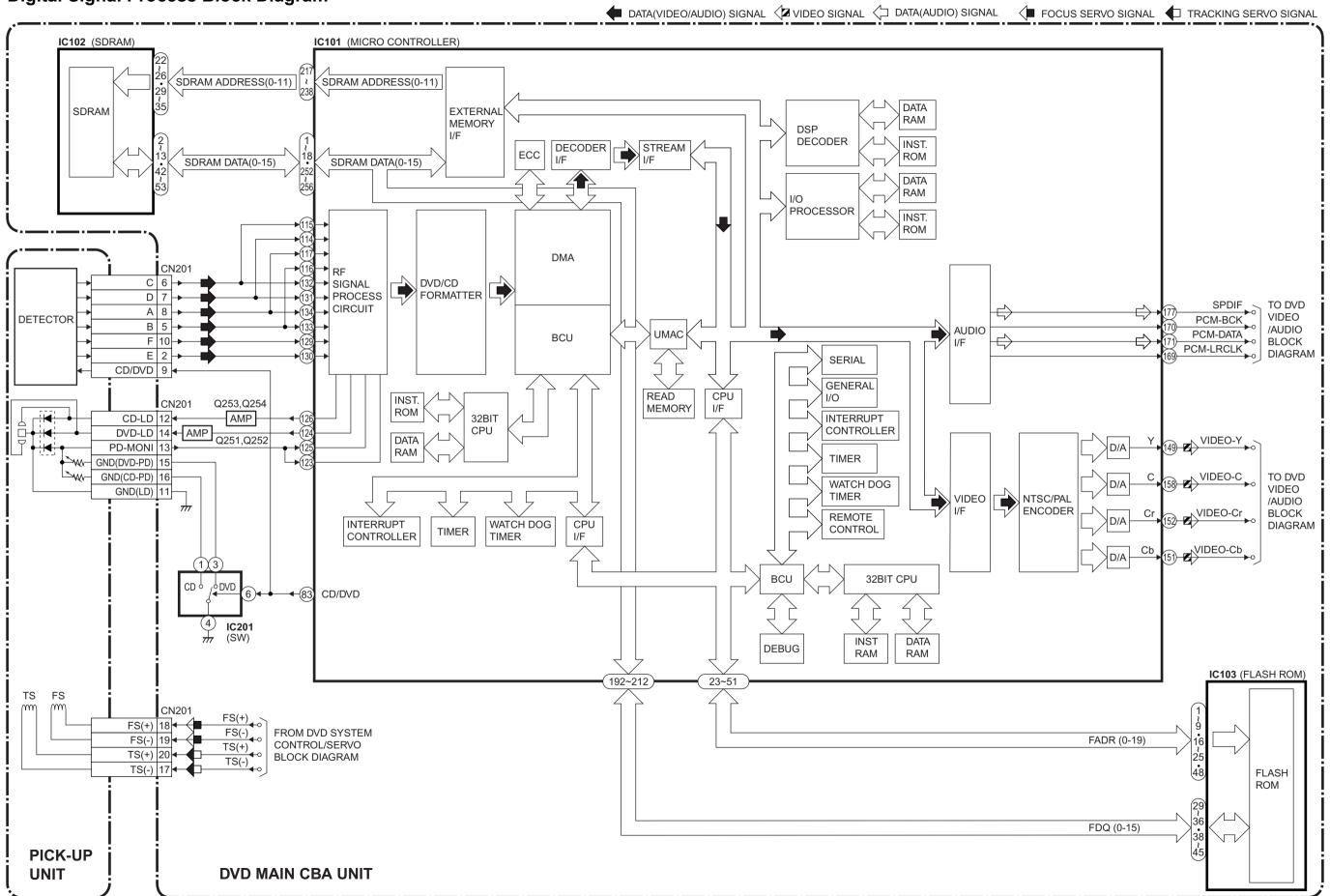
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MEMO TYPE. RISK OF FIRE-REPLACE FUSE AS MARKED.

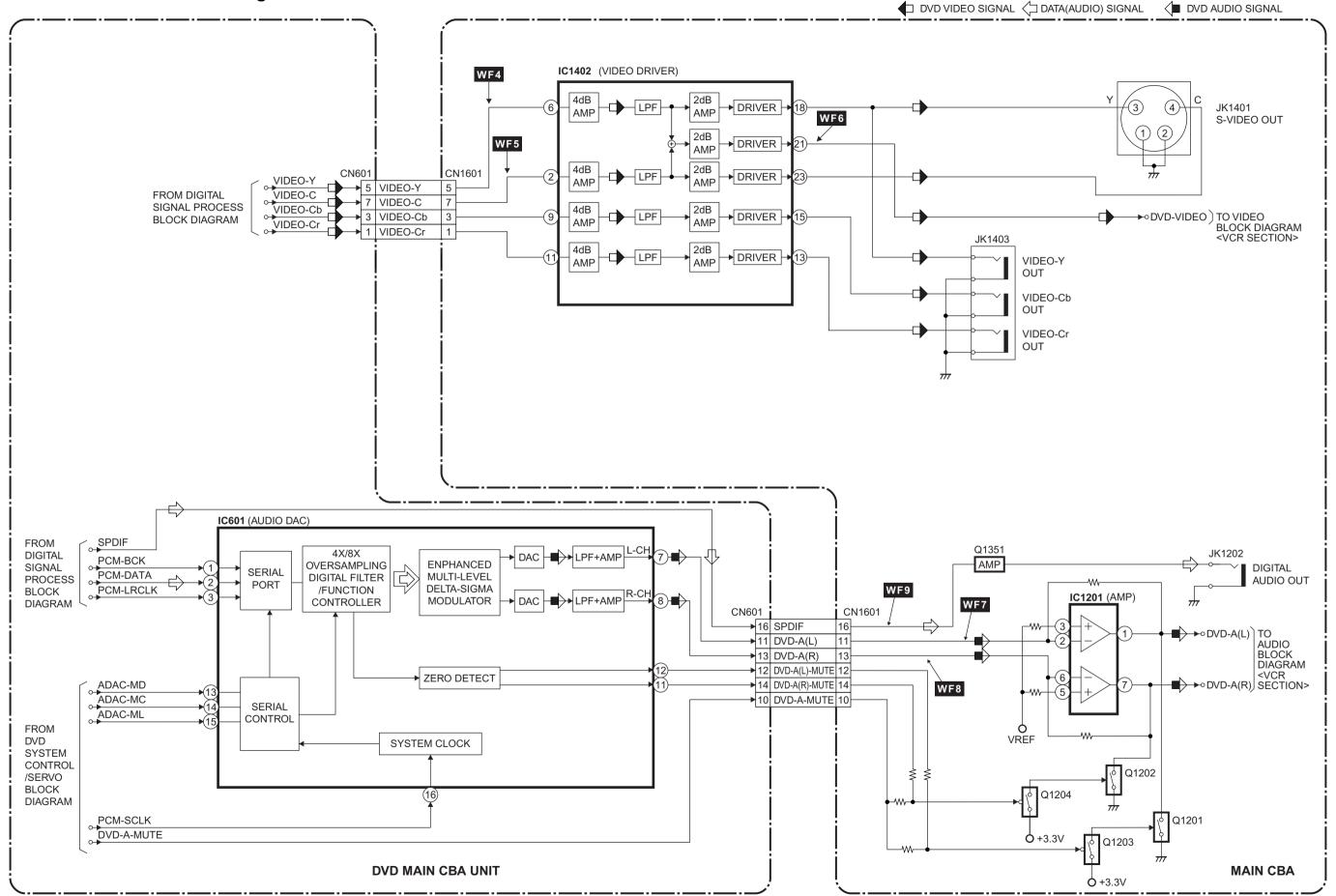
CAUTION!

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.









SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " A " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

- Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- 2. All resistance values are indicated in ohms (K=10³, M=10⁶).
- 3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
- 4. All capacitance values are indicated in μ F (P=10⁻⁶ μ F).
- 5. All voltages are DC voltages unless otherwise specified.

1-11-1 H9400SC

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:



FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MEMO TYPE.

RISK OF FIRE-REPLACE FUSE AS MARKED.



This symbol means fast operating fuse. Ce symbole reprèsente un fusible à fusion rapide.

2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

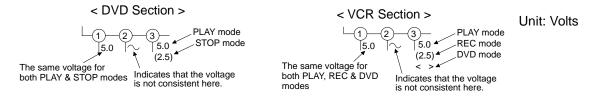
- (1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- (2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Wire Connectors

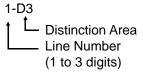
- (1) Prefix symbol "CN" means "connector" (can disconnect and reconnect).
- (2) Prefix symbol "CL" means "wire-solder holes of the PCB" (wire is soldered directly).

5. Mode: SP/REC

6. Voltage indications for PLAY and REC modes on the schematics are as shown below:

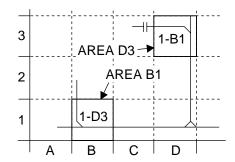


7. How to read converged lines



Examples:

- 1. "1-D3" means that line number "1" goes to area "D3".
- 2. "1-B1" means that line number "1" goes to area "B1".



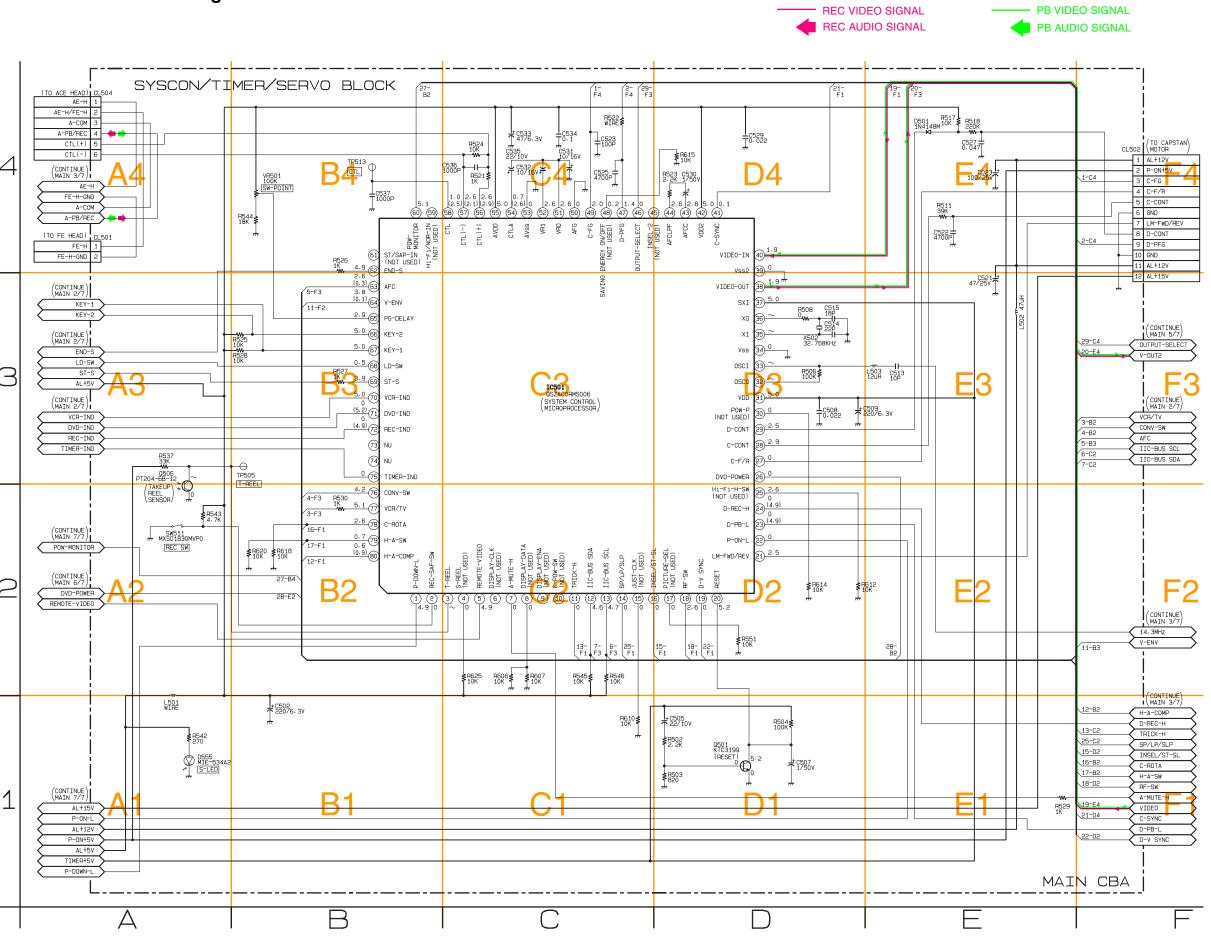
8. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with no test pin.

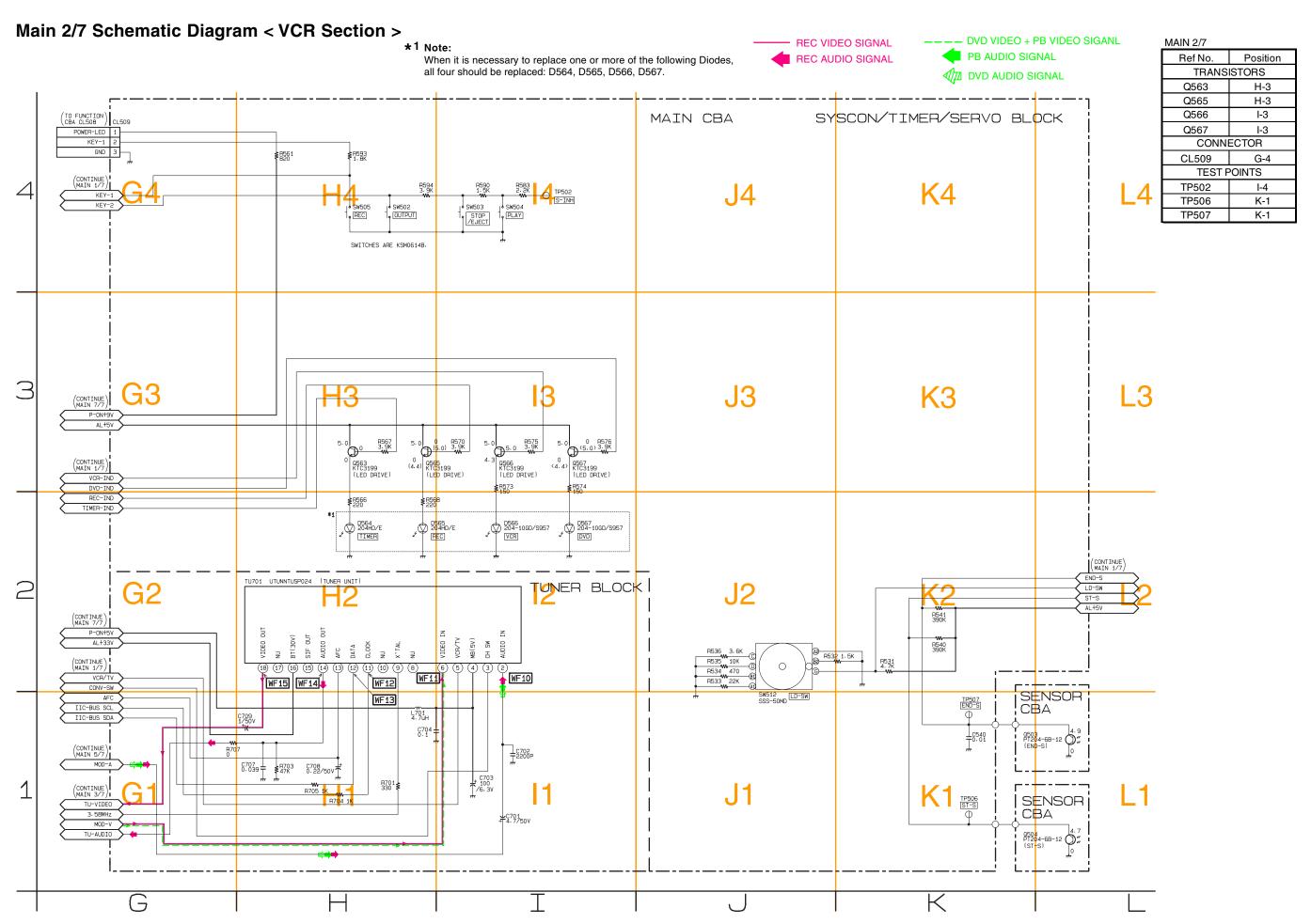
: Used to indicate a test point with a test pin.

1-11-2 SC 09

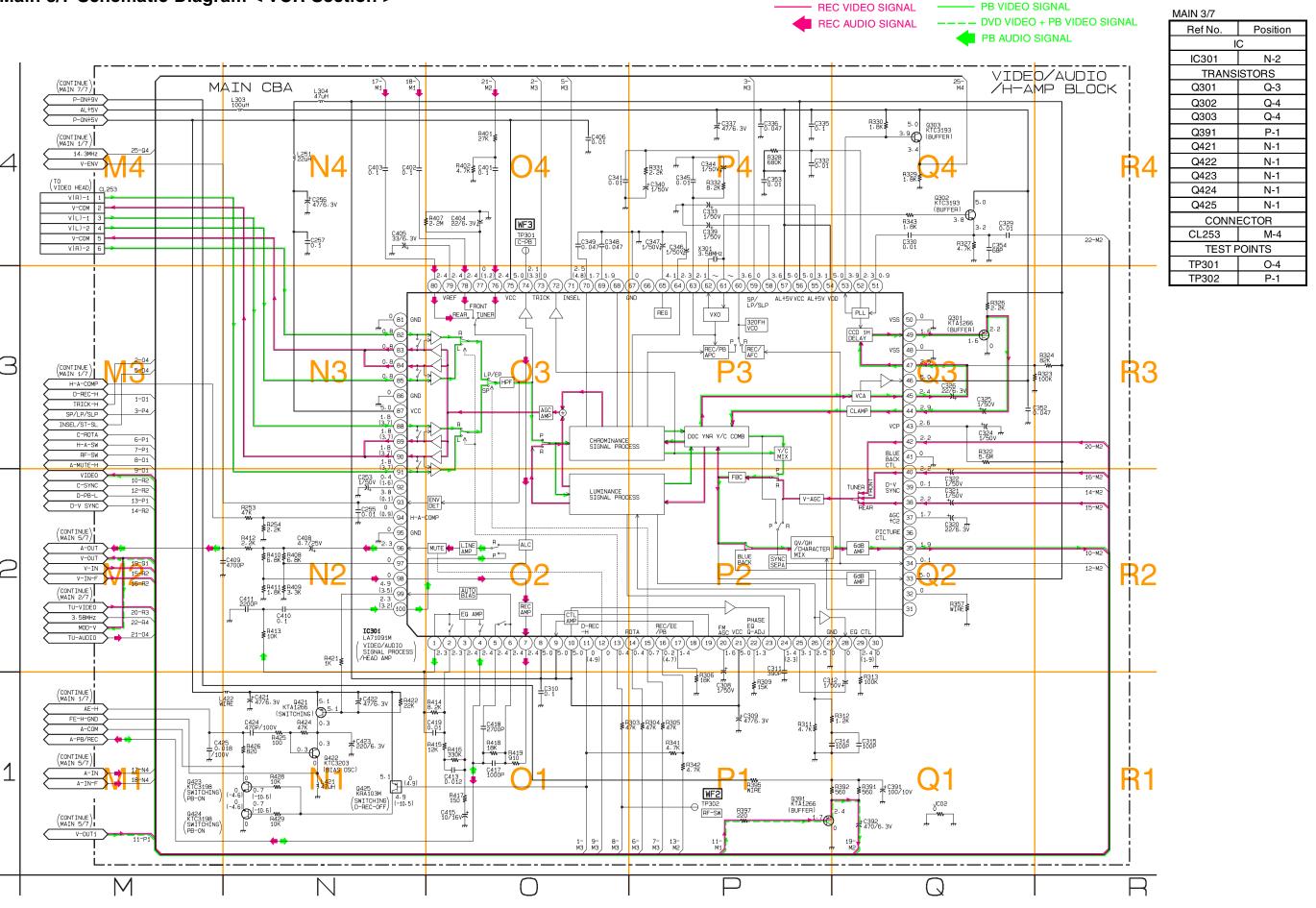


MAIN 1/7 Ref No. Position IC501 C-3 TRANSISTORS Q501 Q506 A-3 CONNECTORS CL501 A-4 CL502 F-4 CL504 A-4 VARIABLE RESISTOR VR501 TEST POINTS TP505 TP513 B-4

1-11-3



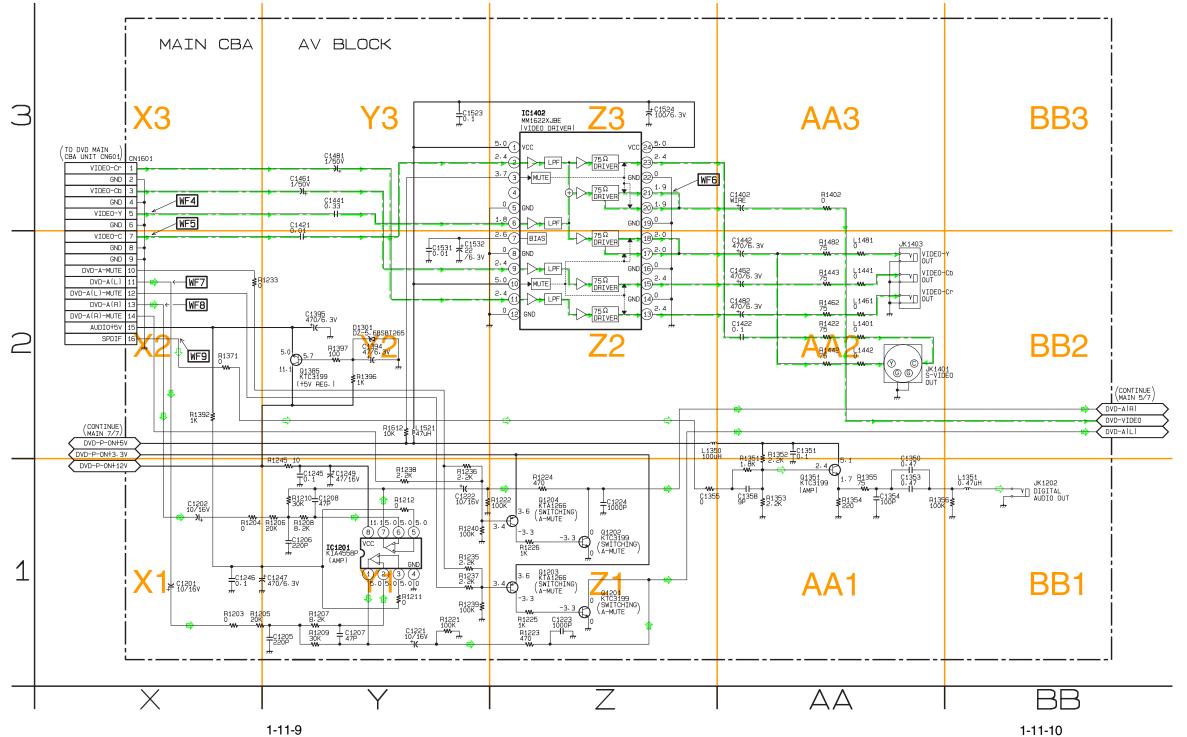
1-11-7

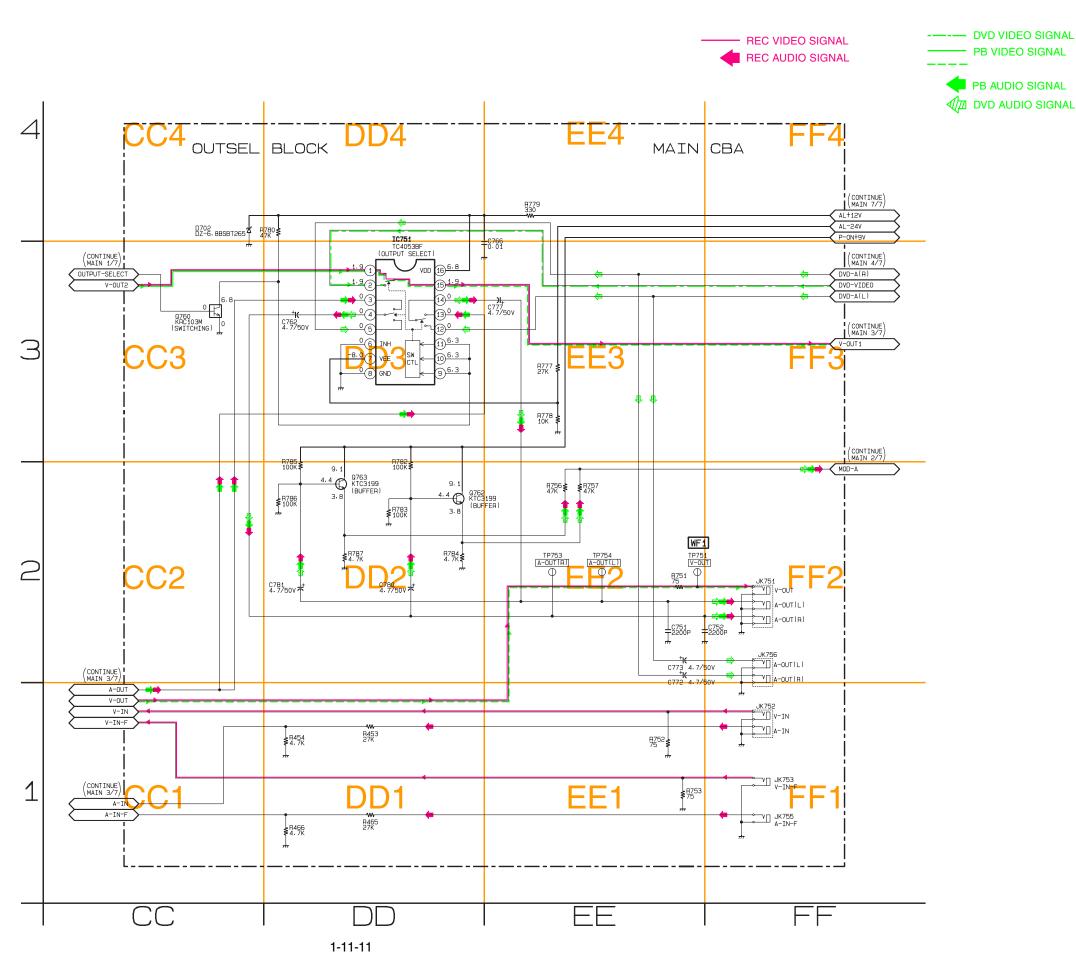


---- DVD VIDEO SIGNAL DVD AUDIO SIGNAL 🗘 DATA (AUDIO) SIGNAL

MAIN 4/7

Ref No.	Position				
ICS					
IC1201	Y-1				
IC1402	Z-3				
TRANS	ISTORS				
Q1201	Z-1				
Q1202	Z-1				
Q1203	Z-1				
Q1204	Z-1				
Q1351	AA-1				
Q1385	Y-2				
CONNECTOR					
CN1601	X-3				
	IC1201 IC1402 TRANS Q1201 Q1202 Q1203 Q1204 Q1351 Q1385 CONNI				



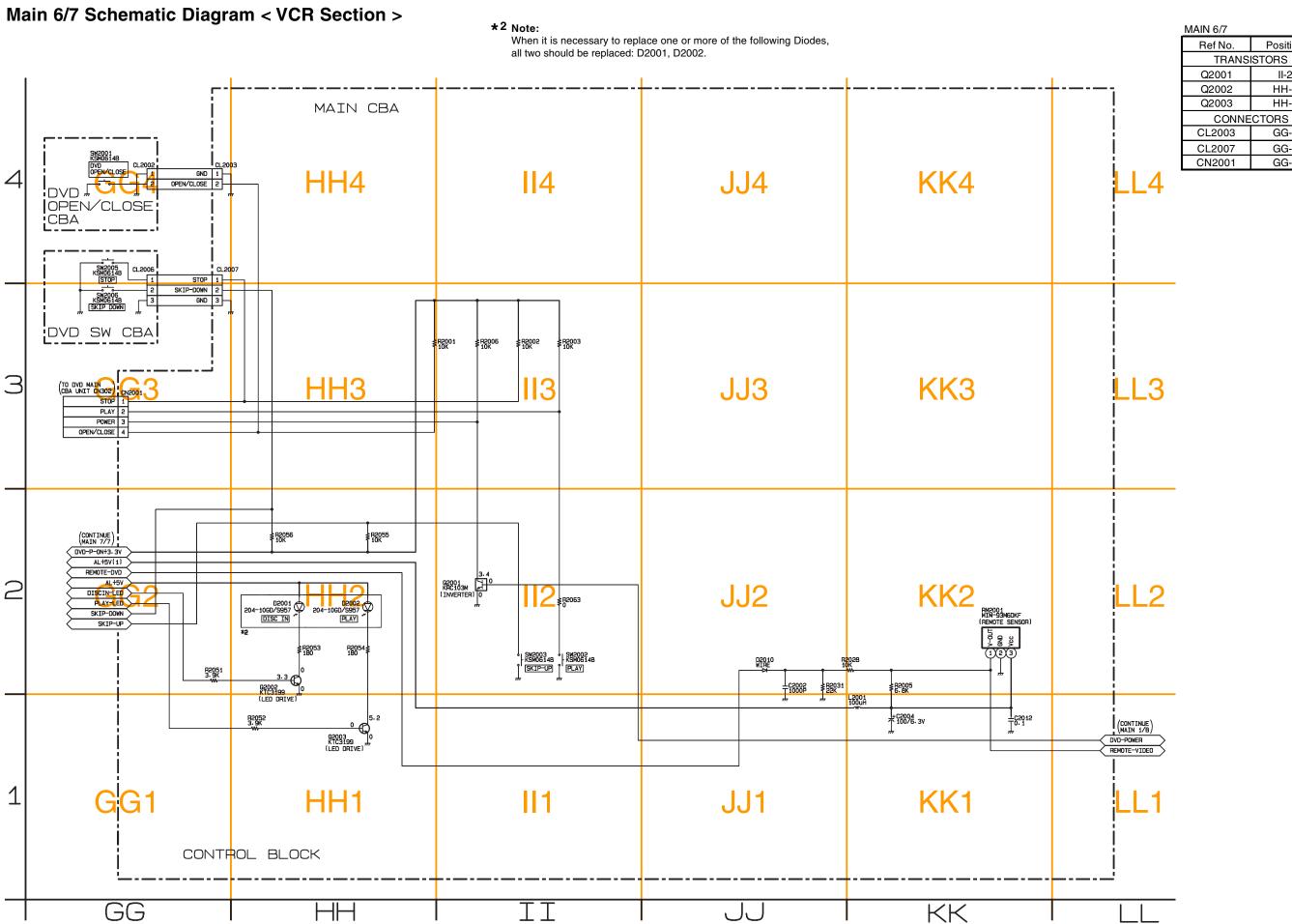


MAIN 5/7

INITALIN S/T								
Ref No.	Position							
IC								
IC751	DD-3							
TRANS	ISTORS							
Q760	CC-3							
Q762	DD-2							
Q763	DD-2							
TEST F	POINTS							
TP751	EE-2							
TP753	EE-2							
TP754	EE-2							

1-11-12 H94X1SCM5

1-11-13



Position

II-2

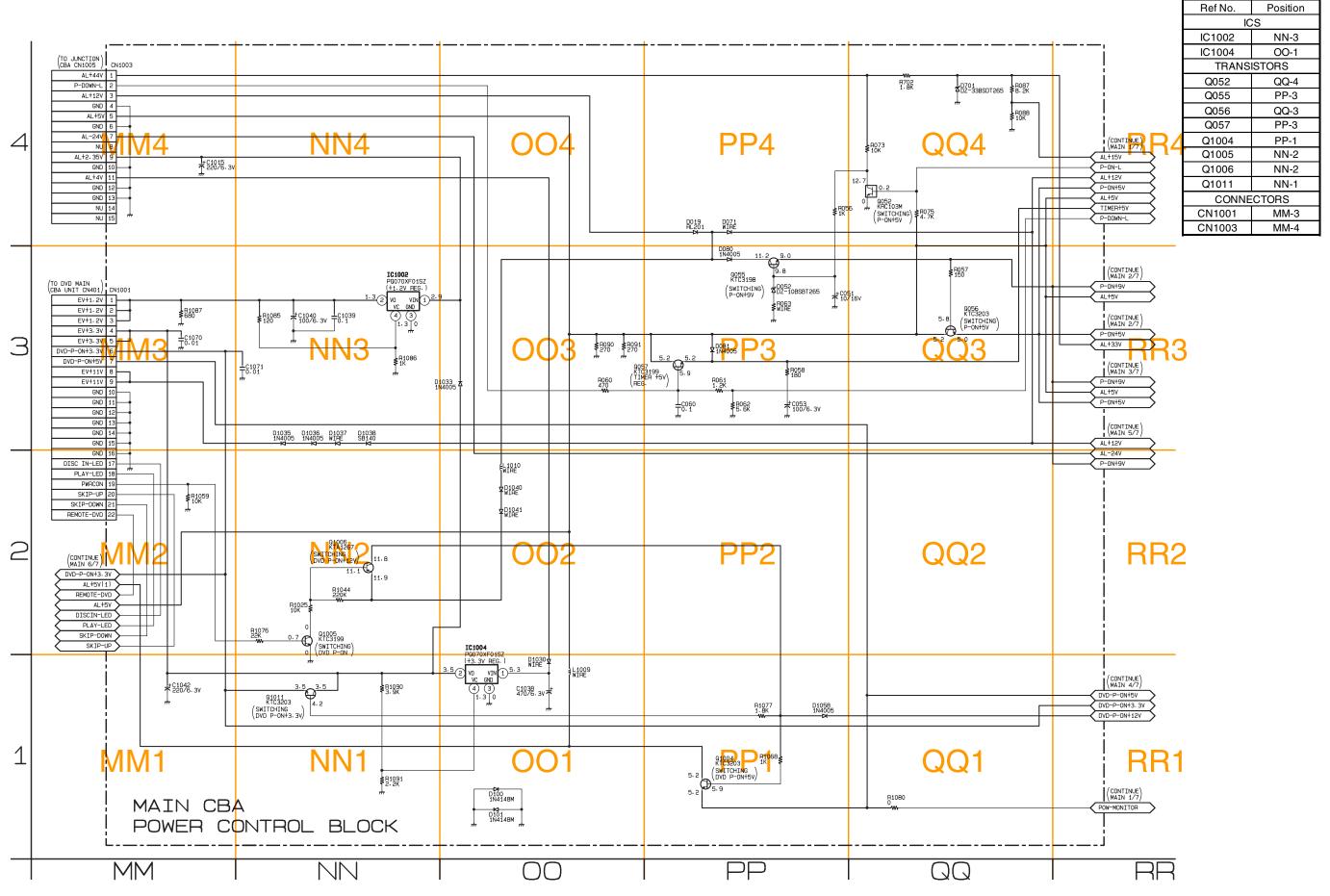
HH-2

HH-1

GG-4

GG-4

GG-3



MAIN 7/7

Power Supply Schematic Diagram < VCR Section >

CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES

D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE. RISK OF FIRE-REPLACE FUSE AS MARKED.

"This symbol means fast operating fuse."

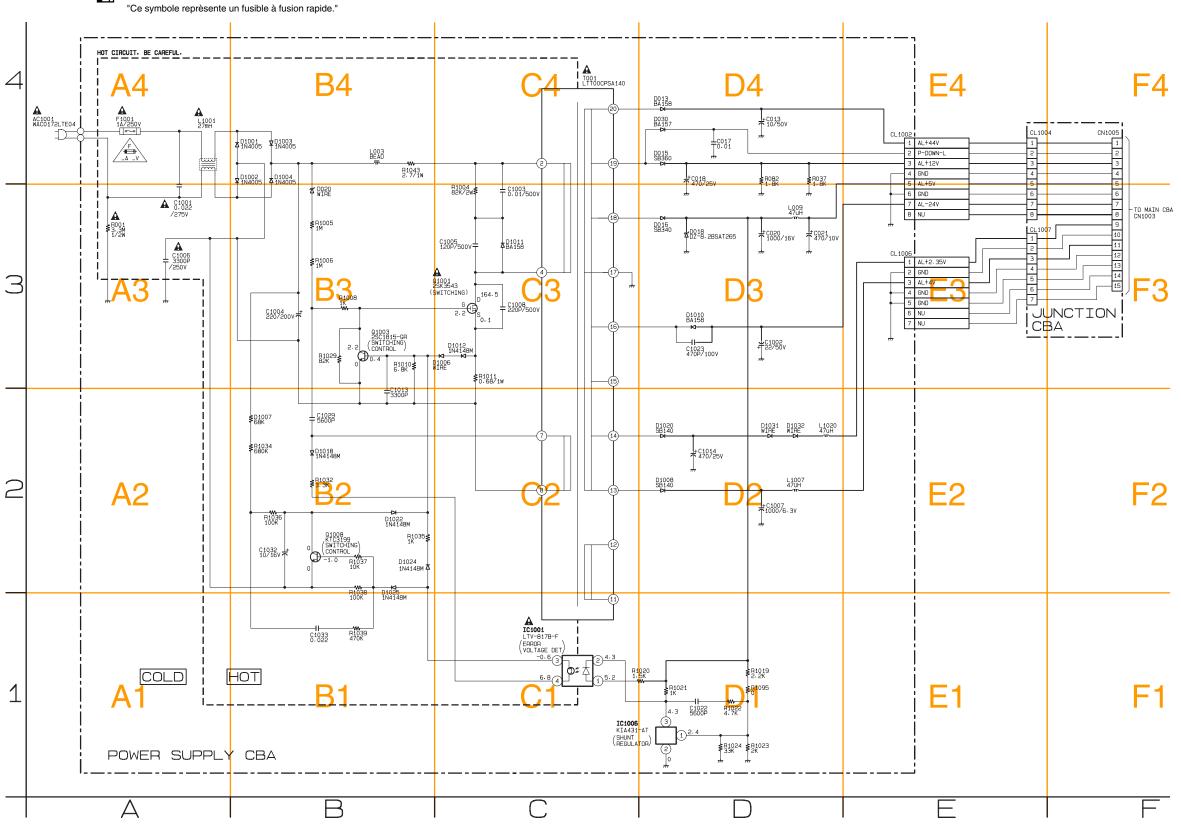
CAUTION!

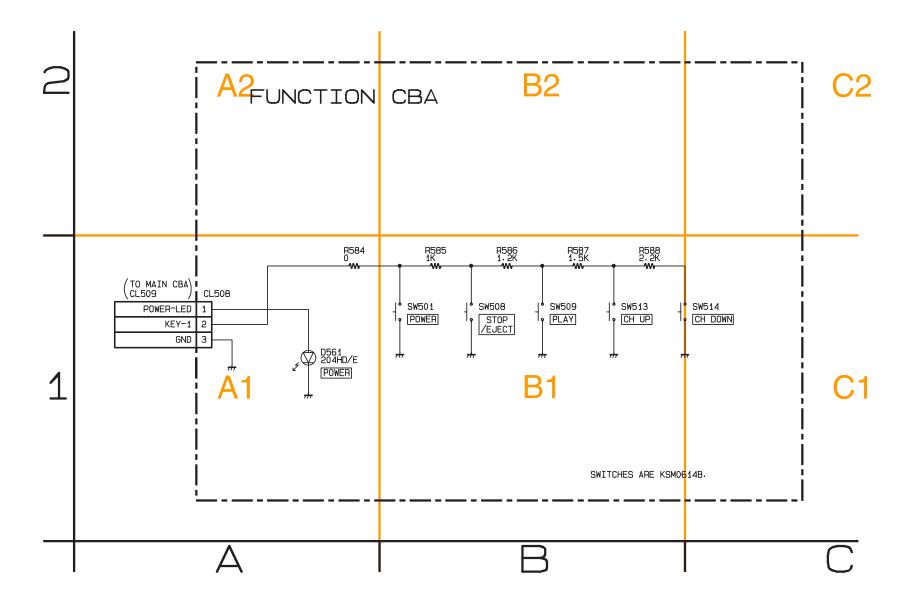
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

NOTE:

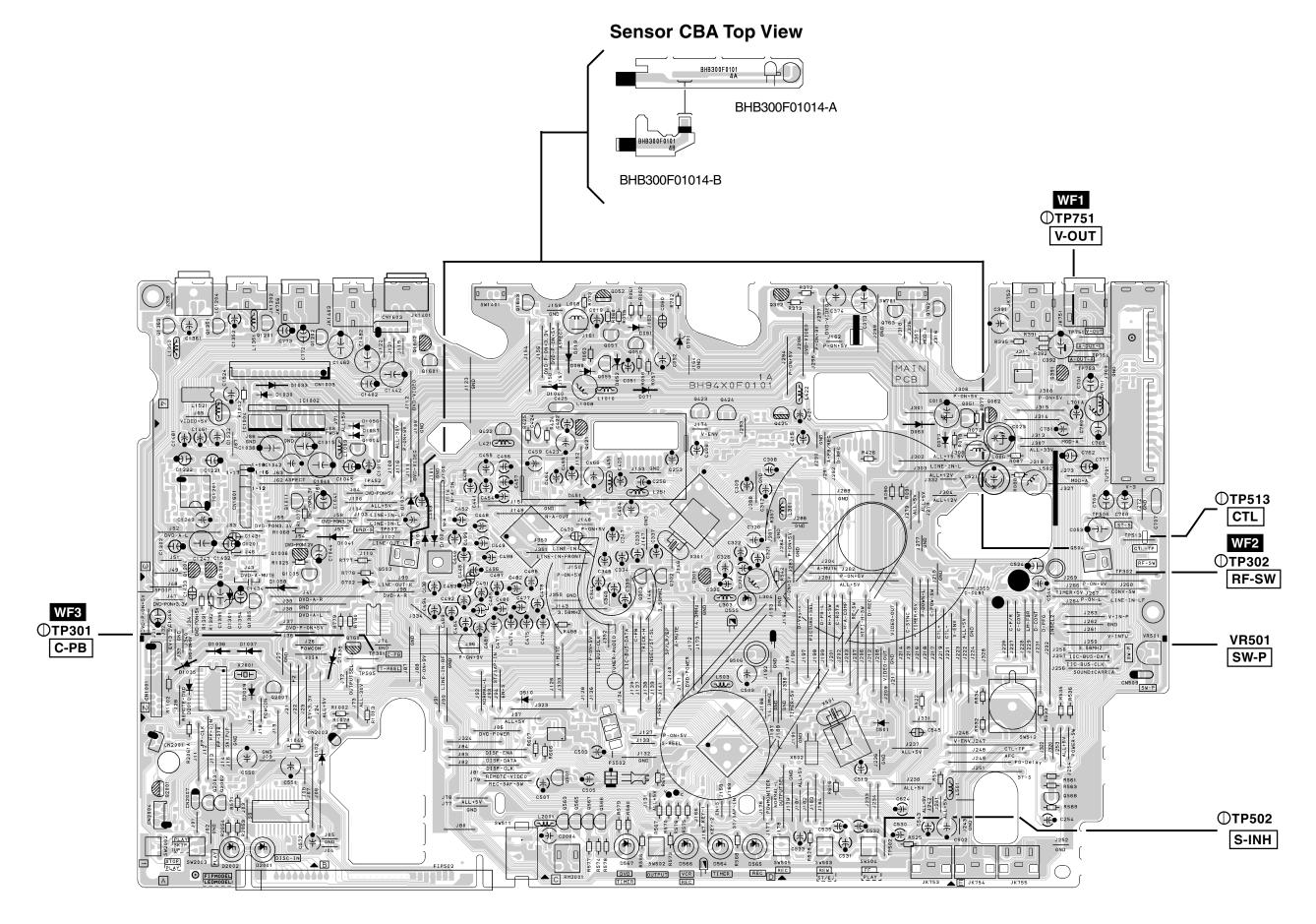
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

Power Supply Ref No. Position ICS IC1001 C-1 IC1006 D-1 TRANSISTORS Q1001 C-3 Q1003 B-3 Q1008 B-2 CONNECTORS CL1002 E-4 CL1006 E-3



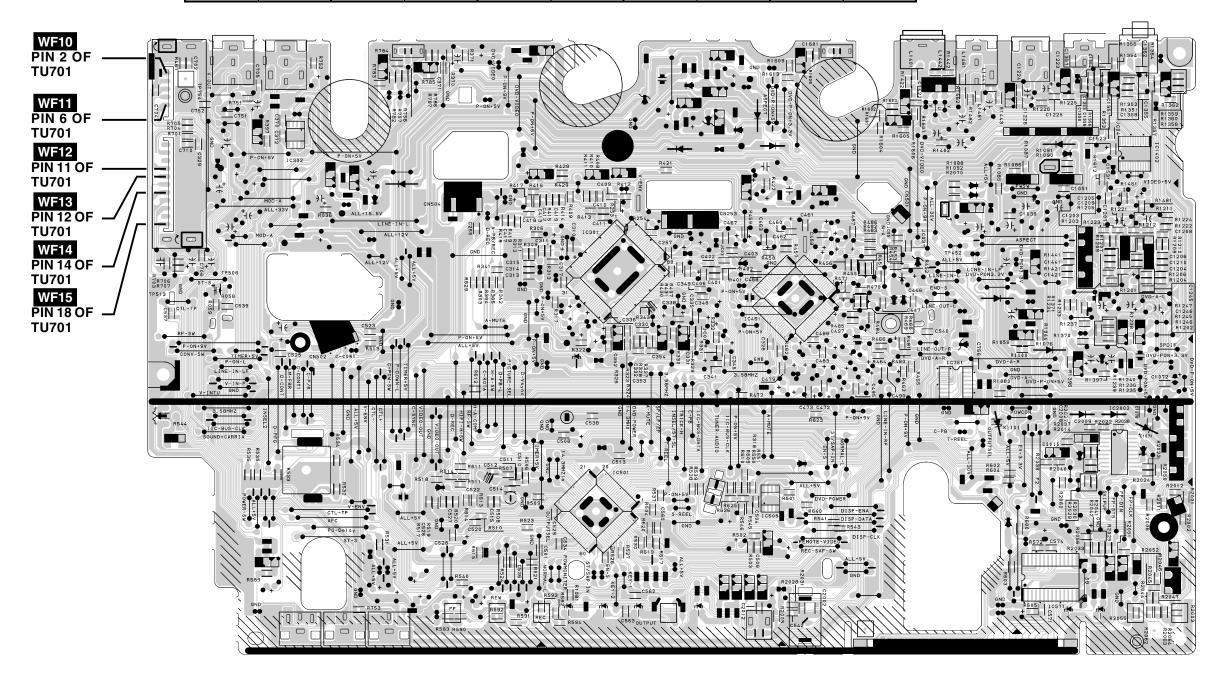


1-11-19 1-11-20 H94X1SCF

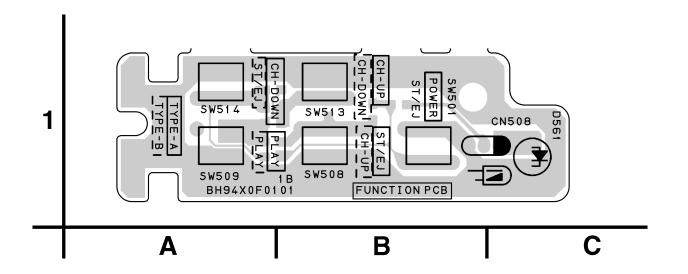


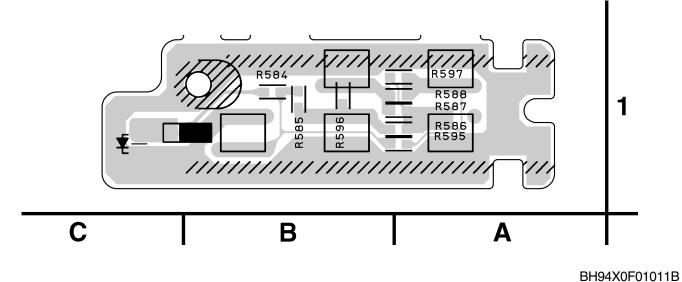
Main CBA Bottom View

MAIN CBA												
Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	
IC	CS	TRANS	ISTORS	TRANSISTORS		TRANSISTORS		CONNE	CTORS	TEST F	TEST POINTS	
IC301	C-3	Q057	C-4	Q565	C-1	Q1204	A-2	CL2007	A-1	TP506	E-3	
IC451	C-3	Q301	C-2	Q566	C-1	Q1351	A-4	CN1001	A-2	TP507	B-3	
IC501	C-2	Q302	C-2	Q567	C-1	Q1385	A-2	CN1003	A-4	TP513	E-3	
IC571	A-1	Q303	C-2	Q760	B-2	Q2001	A-1	CN1601	A-3	TP751	E-4	
IC751	B-2	Q391	E-4	Q762	D-4	Q2002	A-1	CN2001	A-1	TP753	E-4	
IC1002	A-4	Q421	C-3	Q763	D-4	Q2003	A-1	VARIABLE I	RESISTORS	TP754	E-4	
IC1004	A-3	Q422	B-3	Q1004	B-3	CONNE	CONNECTORS VR501 E-2		E-2			
IC1201	A-3	Q423	C-4	Q1005	A-3	CL253	C-3	TEST F	POINTS			
IC1402	A-4	Q424	C-4	Q1006	A-3	CL501	B-3	TP301	B-2			
TRANS	ISTORS	Q425	C-4	Q1011	A-3	CL502	E-3	TP302	E-3			
Q052	C-4	Q501	C-1	Q1201	A-4	CL504	D-3	TP452	B-3			
Q055	C-4	Q506	C-2	Q1202	B-4	CL509	E-3	TP502	D-1			
Q056	C-4	Q563	C-1	Q1203	A-3	CL2003	B-1	TP505	B-2			



Function CBA Bottom View



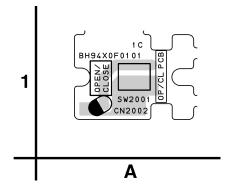


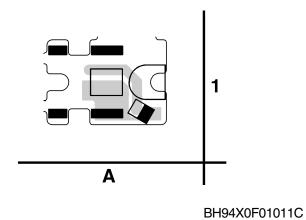
DVD OPEN/CLOSE CBA Top View

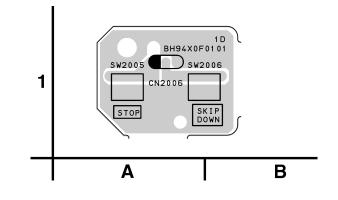
DVD OPEN/CLOSE CBA Bottom View

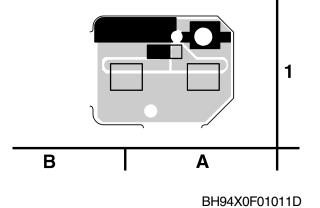
DVD SW CBA Top View

DVD SW CBA Bottom View









Power Supply CBA Top View

Power Supply CBA Bottom View

CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE. RISK OF FIRE-REPLACE FUSE AS MARKED.

"This symbol means fast operating fuse." "Ce symbole reprèsente un fusible à fusion rapide."

CAUTION!

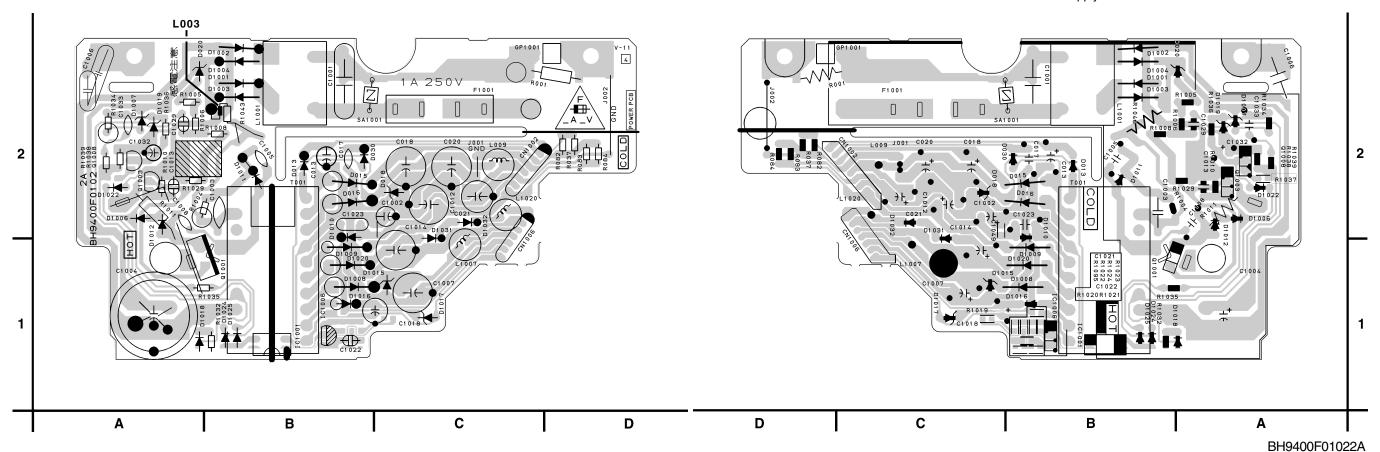
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.

NOTE:

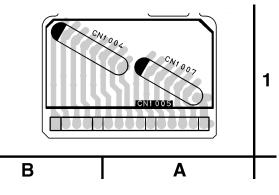
Either BH9400F01022, BH9401F01023 is used for the Power Supply CBA in this S/M.



Junction CBA Top View

Junction CBA Bottom View

RELAY PCB BH9400F0102 В



ICS IC1001 B-1 Either BH9400F01022, BH9401F01023 IC1006 B-1 is used for the Junction CBA in this S/M. **TRANSISTORS** Q1001 B-1 Q1003 A-2 Q1008 A-2 CONNECTORS

Power Supply CBA Ref No.

CL1002

CL1006

Position

C-2

C-1

BH9400F01022B

1-11-27 1-11-28

Power Supply CBA Top View

Power Supply CBA Bottom View

CAUTI

F A_V

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE.
RISK OF FIRE-REPLACE FUSE AS MARKED.

"This symbol means fast operating fuse."

"Ce symbole reprèsente un fusible à fusion rapide."

CAUTION!

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

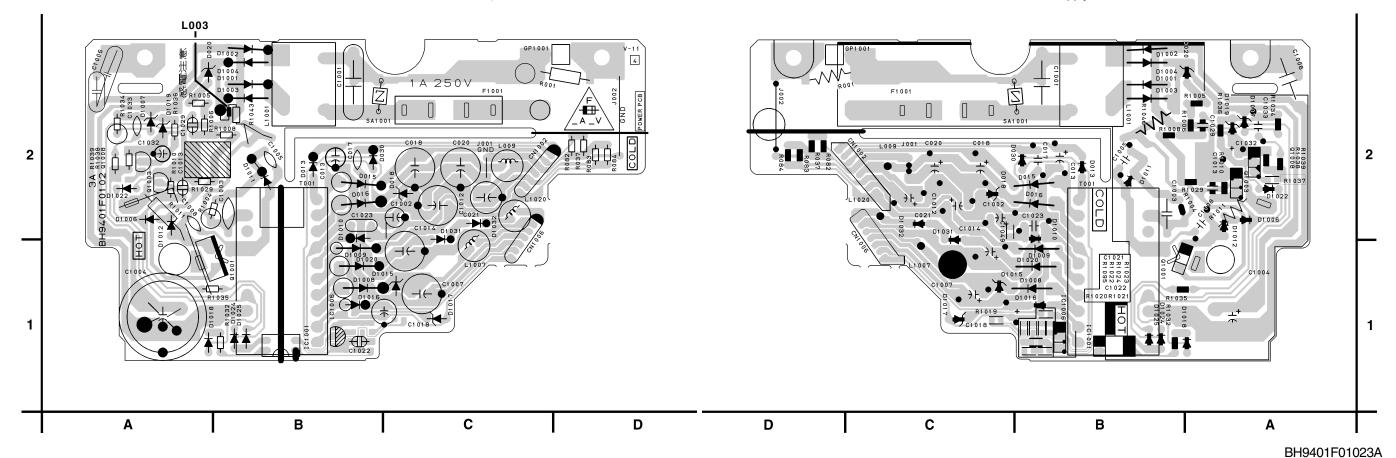
BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.

NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

NOTE:

Either BH9400F01022, BH9401F01023 is used for the Power Supply CBA in this S/M.



Junction CBA Top View

Junction CBA Bottom View

RELAY PCB CN1 001 CN1 005 BH9401F0102 BH9401F0102 B B A

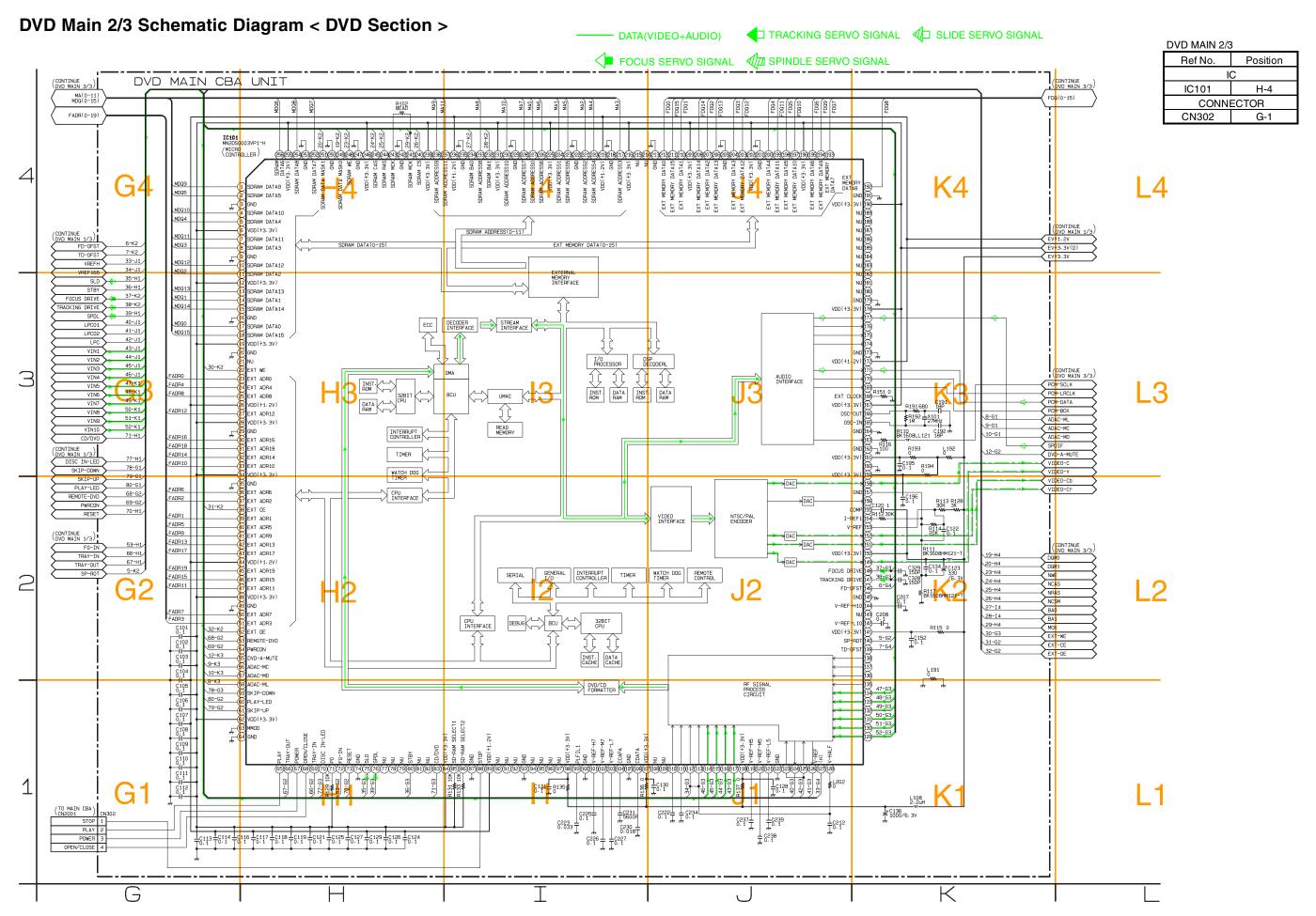
Either BH9400F01022, BH9401F01023 is used for the Junction CBA in this S/M.

Power Supply CBA						
Ref No.	Position					
IC	S					
IC1001	B-1					
IC1006	B-1					
TRANS	STORS					
Q1001	B-1					
Q1003	A-2					
Q1008	A-2					
CONNE	CTORS					
CL1002	C-2					
CL1006	C-1					

BH9401F01023B

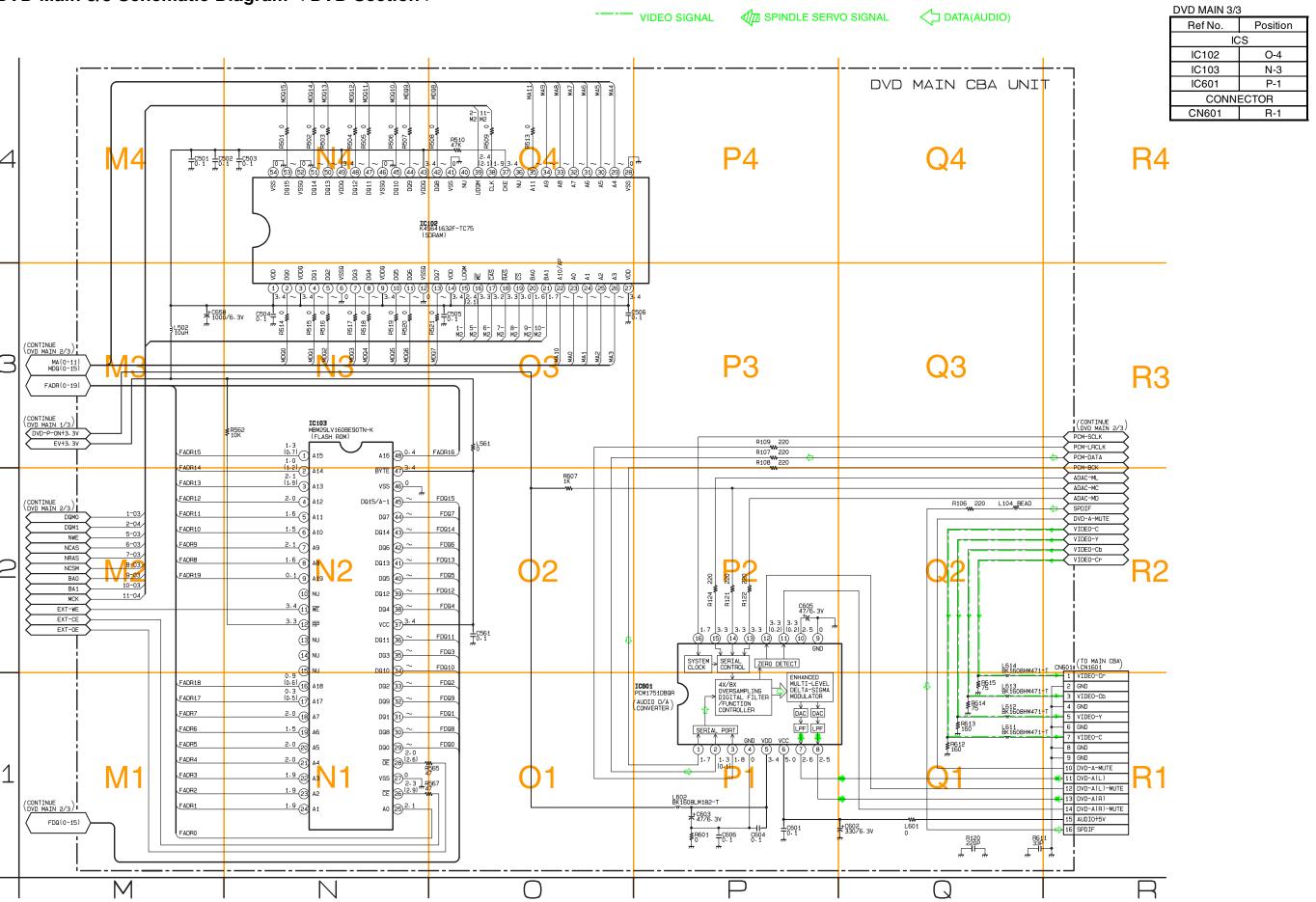
1-11-32

H94X1SCD1

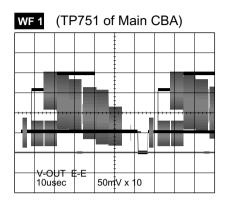


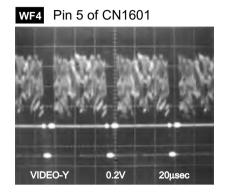
IC101 VOLTAGE CHART

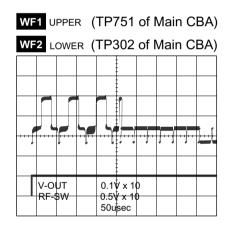
			CHAH	· •																			
PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP
1	~	٧	33	~	~	65	3.3	3.3	97			129	2.3	2.3	161	3.3	3.3	193	~	~	225	3.4	3.4
2	~	~	34	3.4	3.4	66	3.4	3.4	98	3.3	3.3	130	2.2	2.2	162	0	0	194	~	~	226	~	~
3	0	0	35	0	0	67	3.3	3.3	99	0.9	0.9	131	2.4	2.4	163	1.6	1.6	195	~	~	227	~	~
4	?	~	36	?	~	68	3.3	3.3	100	0	0	132	2.4	2.4	164	0	0	196	3.4	3.4	228	~	~
5	?	~	37	?	~	69	3.4	3.4	101	1.6	1.6	133	2.4	2.4	165	1.5	1.5	197	~	~	229	0	0
6	3.4	3.4	38	2.2	2.9	70	3.3	3.3	102	2.1	2.1	134	2.4	2.4	166	1.6	1.6	198	~	~	230	~	~
7	~	~	39	~	~	71	0.1	0.1	103	2.6	2.6	135			167	3.4	3.4	199	~	~	231	3.4	3.4
8	~	~	40	~	~	72	1.2	2.5	104	0.3	0.3	136			168	0	0	200	~	~	232	1.7	1.7
9	0	0	41	~	~	73	3.4	3.4	105	0	0	137			169	1.8	1.8	201	0	0	233	~	~
10	~	~	42	~	~	74	0	0	106	1.4	1.4	138			170	1.7	1.7	202	3.4	3.4	234	1.6	1.6
11	~	~	43	0.3	0.5	75	1.7	1.7	107	3.3	3.3	139	1.7	1.7	171	1.4	0.1	203	~	~	235	0	0
12	3.4	3.4	44	1.3	1.3	76	2.4	1.7	108			140	1.9	1.7	172	1.3	1.3	204	~	~	236	1.3	1.3
13	~	~	45	0.1	0.1	77			109			141	3.3	3.3	173	0	0	205	0	0	237	~	~
14	~	~	46	~	~	78			110	1.9	1.9	142	3.4	3.4	174			206	~	~	238	~	~
15	~	~	47	~	~	79			111	1.9	1.9	143			175			207	~	~	239	3.4	3.4
16	0	0	48	3.4	3.4	80	3.4	3.4	112	1.7	1.7	144	2.2	2.2	176			208	~	~	240	3.0	3.0
17	~	~	49	0	0	81			113	1.7	1.7	145	0	0	177	1.7	1.7	209	3.4	3.4	241	1.9	1.9
18	~	~	50	~	~	82			114	2.0	2.0	146	1.7	1.7	178	3.4	3.4	210	~	~	242	0	0
19	3.4	3.4	51	~	~	83	0.1	0.1	115	2.0	2.0	147	1.7	1.7	179	0	0	211	~	~	243	1.9	1.9
20	0	0	52	2.0	2.6	84	3.4	3.4	116	2.0	2.0	148	1.7	1.7	180			212	~	~	244	3.3	3.3
21			53	3.1	3.1	85	3.4	3.4	117	2.0	2.0	149	0.7	0.7	181			213	0	0	245	3.2	3.2
22	3.4	3.4	54	3.4	3.4	86	3.4	3.4	118	3.3	3.3	150	3.3	3.3	182			214			246	3.4	3.4
23	~	~	55	3.4	0.1	87	0	0	119	2.0	2.0	151	0.4	0.4	183			215			247	0	0
24	~	~	56	3.4	3.4	88	3.3	3.3	120	1.7	1.7	152	0.4	0.4	184			216	3.4	3.4	248	3.3	3.3
25	~	~	57	3.4	3.4	89	1.3	1.3	121	1.5	1.5	153	1.4	1.4	185			217	~	~	249	2.4	2.1
26	1.3	1.3	58	3.4	3.4	90			122	0	0	154	1.4	1.4	186			218	0	0	250	0	0
27	~	~	59	3.4	3.4	91			123	0.4	0.1	155	2.2	2.2	187			219	1.3	1.3	251	2.4	2.1
28	3.4	3.4	60	3.4	3.4	92			124	1.2	0.4	156			188			220	~	~	252	~	~
29	0	0	61	3.3	3.3	93	0	0	125	0.4	0.1	157	0	0	189			221	~	~	253	0	0
30	0.4	0.4	62	3.4	3.4	94			126	0.2	0.2	158	0.9	0.9	190	3.4	3.4	222	0	0	254	~	~
31	0.9	0.6	63	0	0	95			127	2.3	2.3	159	3.3	3.3	191	0	0	223	~	~	255	3.4	3.4
32	~	~	64	0	0	96			128	1.7	1.7	160	0	0	192	~	~	224	~	~	256	~	~

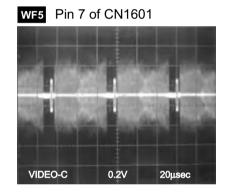


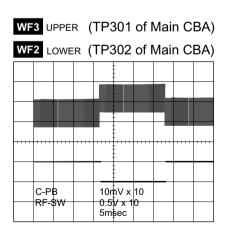
WAVEFORMS

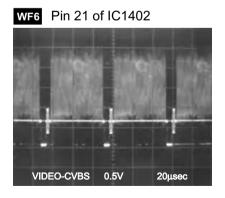






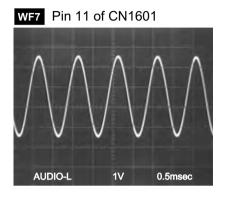


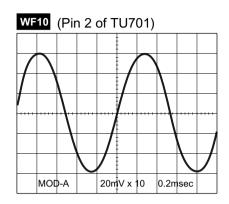


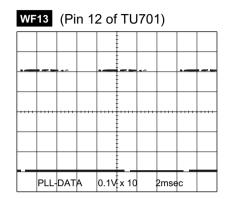


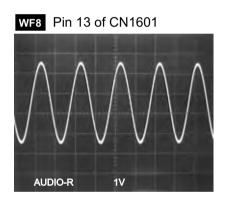
1-12-1 H94X1WF

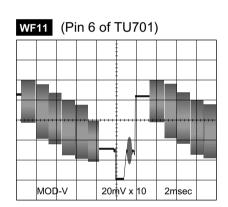
WAVEFORMS

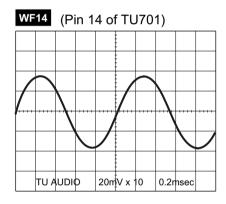


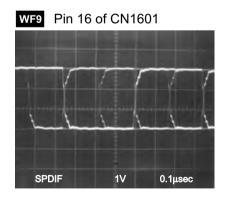


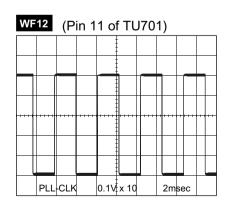


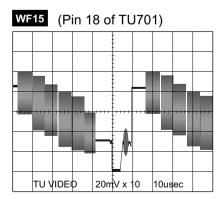






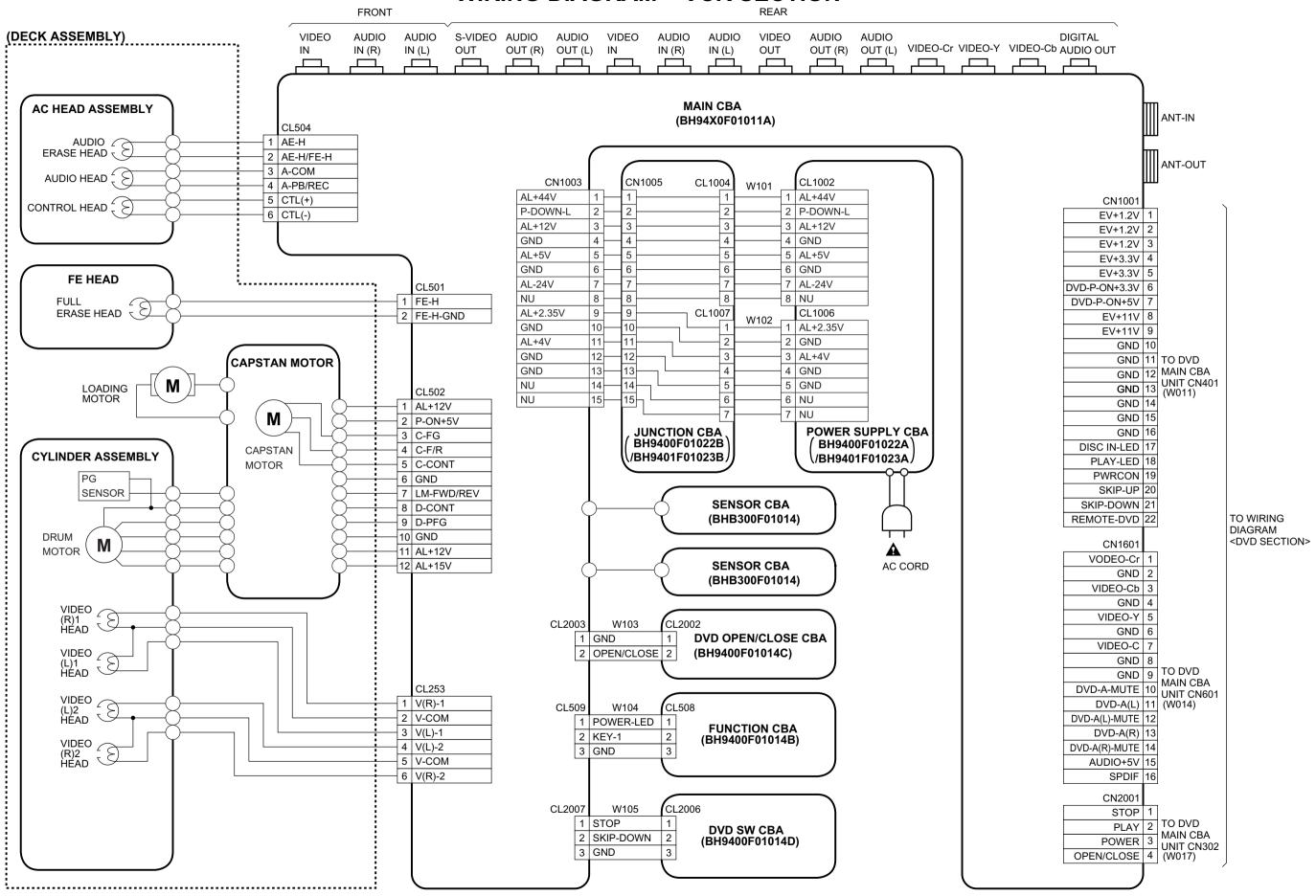






1-12-2 H94X1WF

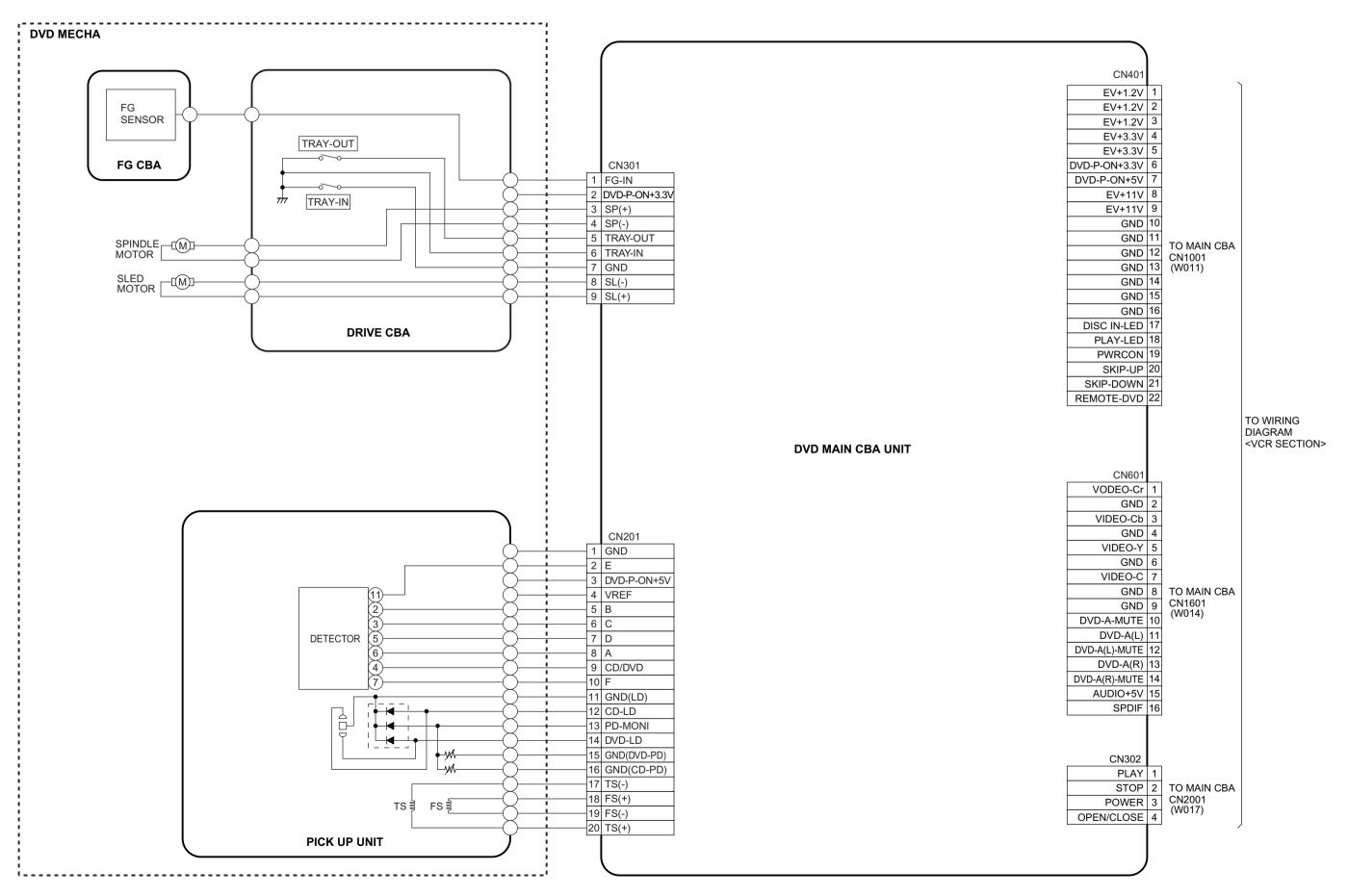
WIRING DIAGRAM < VCR SECTION >



H94X1WI

1-13-2

WIRING DIAGRAM < DVD SECTION >



1-13-4

SYSTEM CONTROL TIMING CHARTS

[VCR Section]

Mode SW: LD-SW

LD-SW Position detection A/D Input voltage Limit (Calculated voltage)	Symbol
3.76V~4.50V (4.12V)	EJ
4.51V~5.00V (5.00V)	CL
0.00V~0.25V (0.00V)	SB
1.06V~1.50V (1.21V)	TL
0.66V~1.05V (0.91V)	FB
1.99V~2.60V (2.17V)	SF
1.51V~1.98V (1.80V)	SM
3.20V~3.75V (3.40V)	AU
0.26V~0.65V (0.44V)	AL
4.51V~5.00V (5.00V)	SS
2.61V~3.19V (2.97V)	RS

L Note:

Note:

EJ → RS: Loading FWD (LM-FWD/REV "H")
RS → EJ: Loading REV (LM-FWD/REV "L")

Stop (A) = Loading Stop (B) = Unloading

Note:

Symbol	Loading Status
EJ	Eject
CL	Eject ~ REW Reel
SB	REW Reel ~ Stop(B)
TL	Stop(B) ~ Brake Cancel
FB	Brake Cancel ~ FF / REW
SF	FF / REW ~ Stop(M), (FF / REW)
SM	Stop(M), (FF / REW) ~ Stop(A)
AU	Stop(A) ~ Play / REC
AL	Play / REC ~ Still / Slow
SS	Still / Slow ~ RS (REW Search)
RS	RS (REW Search)

1-14-1 H9400TI

Still/Slow Control

Frame Advance Timing Chart

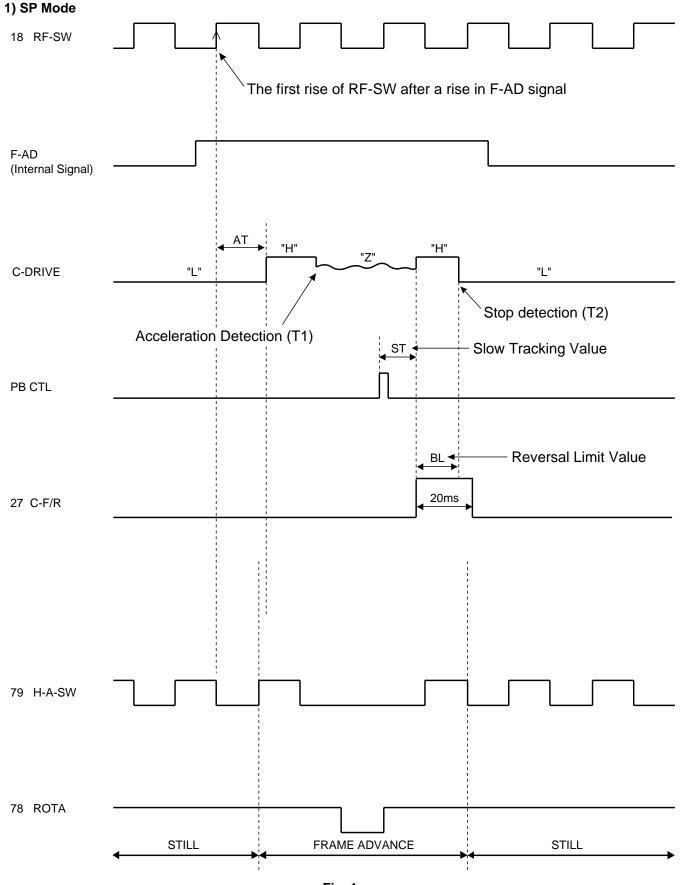
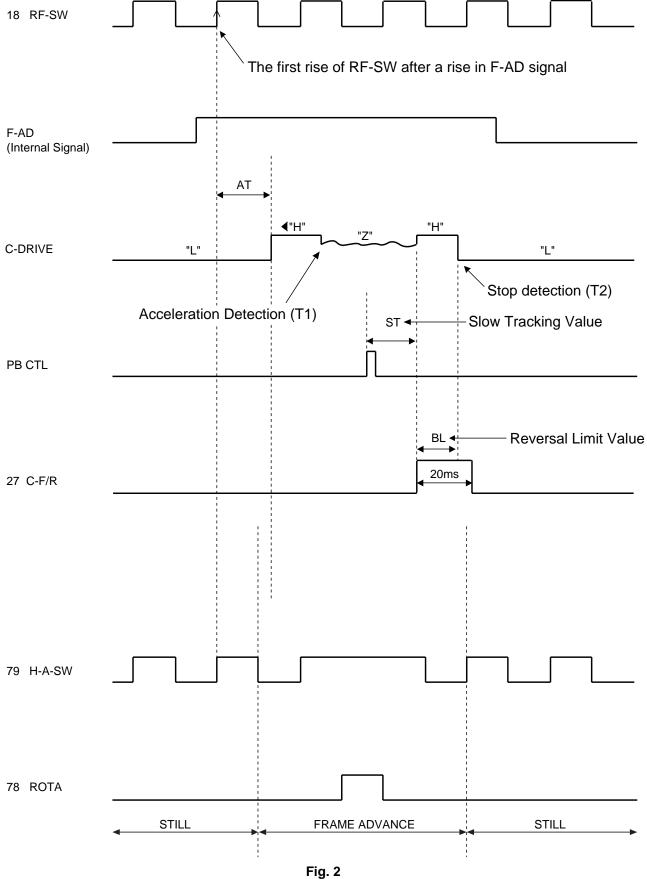


Fig. 1

1-14-2 H9400TI

2) LP/SLP Mode



1-14-3 H9400TI

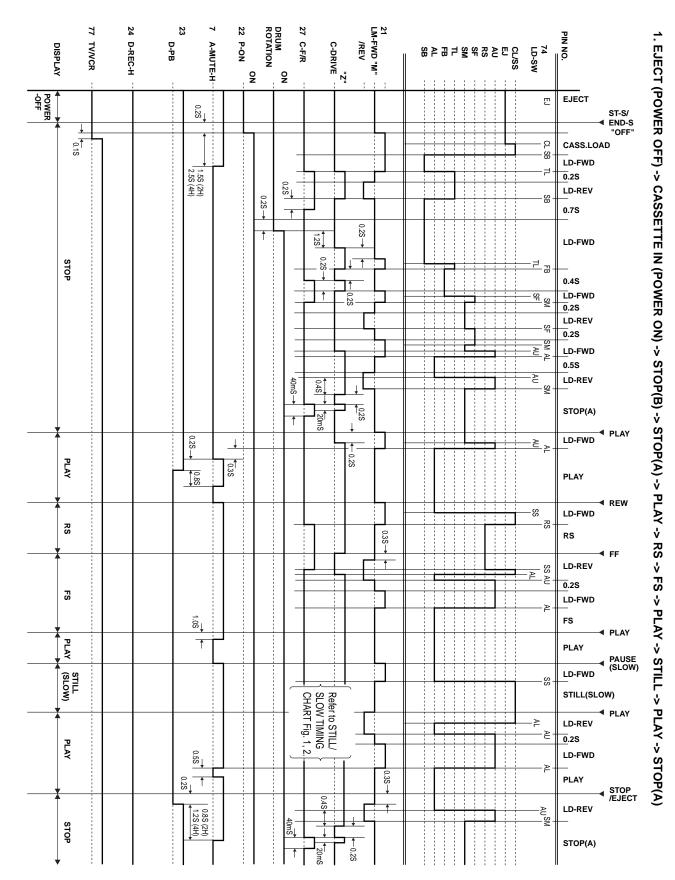


Fig. 3

1-14-4 H9400TI

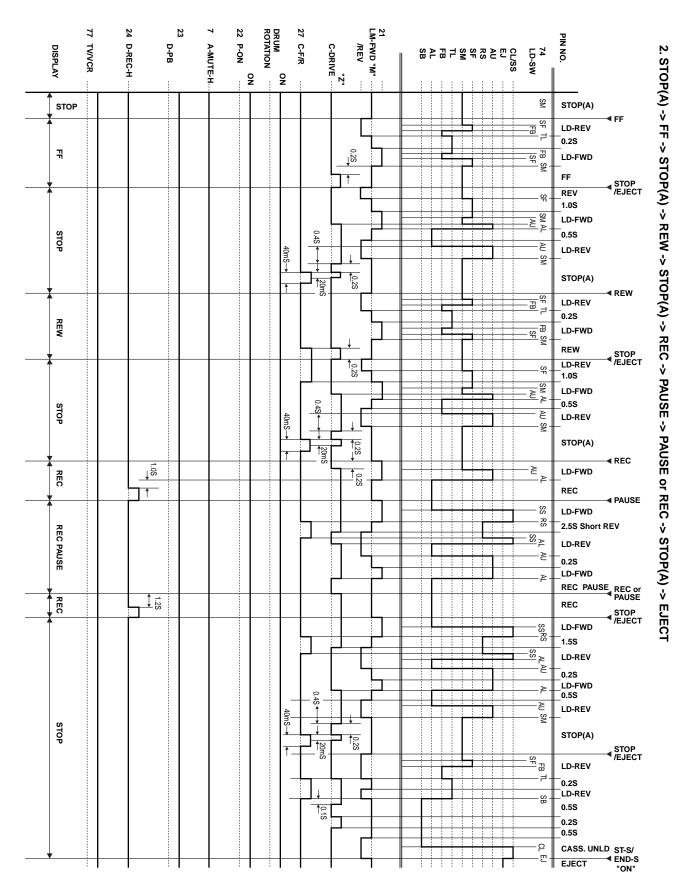
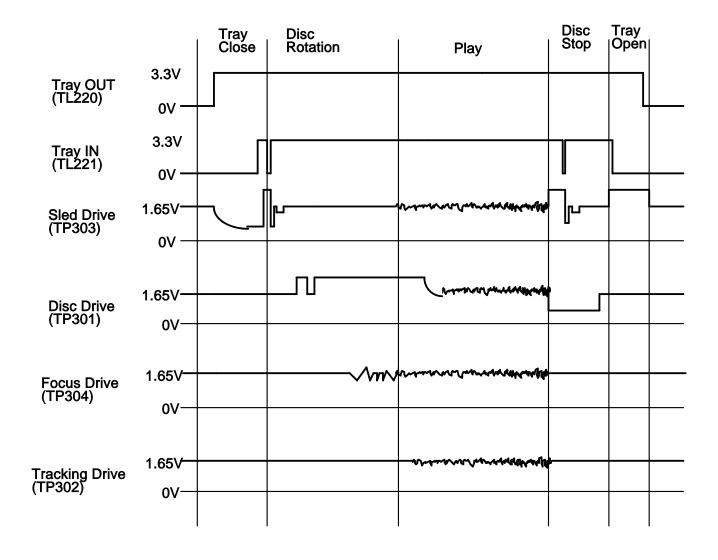


Fig. 4

1-14-5 H9400TI

[DVD Section]

Tray Close ~ Play / Play ~ Tray Open



1-14-6 H9400TI

IC PIN FUNCTION DESCRIPTIONS

IC501(SERVO / SYSTEM CONTROL IC)

"H" \geq 4.5V, "L" \leq 1.0V

Pins that have * in the Pin No. section on table below are not used.

Din	INI/	0:	1	A -41	
Pin No.	IN/ OUT	Signal Name	Function	Active Level	
1	IN	P-DOWN -L	Power Voltage Down Detector Signal	L	
2	IN	REC- SAF-SW	Recording Safety SW Detect (With Record tab = "L"/ With out Record tab = "H")	H/L	
3	IN	T-REEL	Take Up Reel Rotation Signal	PULSE	
4	-	N.U.	Not Used	-	
5	IN	REMOTE -VIDEO	Remote Control Sensor	L	
6	-	N.U.	Not Used	-	
7	OUT	A-MUTE- H	Audio Mute Control Signal (Mute = "H")	Н	
8	-	N.U.	Not Used	-	
9	-	N.U.	Not Used	-	
10	-	N.U.	Not Used	-	
11	OUT	TRICK-H	Special Playback= "H"	H/Z/L	
12	IN/ OUT	IIC-BUS- SDA	IIC BUS Control Data	H/L	
13	OUT	IIC-BUS- SCL	IIC BUS Control Clock	H/L	
14	OUT	SP/LP/ SLP	Top Speed Select Signal (SP="L"/ LP="Z"/SLP="H")	H/Z/L	
15	-	N.U.	Not Used	-	
16	OUT	INSEL/ ST-SL	Input Selector Control Signal (EE/ Rec)/Still/Slow (Playback)	H/Hi-z /L	
17	-	N.U.	Not Used	-	
18	OUT	RF-SW	Video Head Switching Pulse	H/L	
19	OUT	D-V SYNC	Dummy V-sync Output	H/Hi-z	
20	IN	RESET	System Reset Signal (Reset="L")	L	
21	OUT	LM-FWD/ REV	Loading Motor FWD/ REV Output	H/Z/L	
22	OUT	P-ON-L	Power On Signal to Low	L	

Pin No.	IN/ OUT	Signal Name	Function	Active Level	
23	OUT	D-PB-L	Playback Instruction Signal	L	
24	OUT	D-REC-H	Delayed Record Signal	Н	
25	-	N.U.	Not Used	-	
26	OUT	DVD- POWER	DVD Power Control Signal	Н	
27	OUT	C-F/R	Capstan Motor FWD/ REV Control Signal (FWD="L"/REV="H")	H/L	
28	OUT	C-CONT	Capstan Motor Control Signal	PWM	
29	OUT	D-CONT	Drum Motor Control Signal	PWM	
30	-	N.U.	Not Used	-	
31	-	VDD	VDD	-	
32	OUT	osco	Main Clock Output 14.31818MHz	-	
33	IN	osci	Main Clock Input 14.31818MHz	-	
34	-	VSS	VSS		
35	IN	ΧI	Sub Clock Input 32.768 MHz	-	
36	OUT	хо	Sub Clock Output 32.768 MHz	-	
37	IN	SXI	Operation Mode Selecting Input Signal	-	
38	OUT	VIDEO- OUT	Composite Video Signal Output	-	
39	-	Vss2	Vss2	-	
40	IN	VIDEO- IN	Composite Video Signal Input		
41	IN	C-SYNC	Composite Synchronized Pulse	PULSE	
42	-	VDD2	VDD2	-	
43	IN	AFCC	Low Path Filter Input Signal For AFC	-	
44	OUT	AFCLPF	Low Path Filter Output Signal For AFC	-	
45	-	N.U.	Not Used	-	
46	OUT	OUTPUT- SELECT	Output Select	H/L	
47	IN	D-PFG	Drum PG/FG Input Signal	PULSE	

1-15-1 H94X1PIN

Pin No.	IN/ OUT	Signal Name	Function	Active Level	
48	-	N.U.	Not Used	-	
49	IN	C-FG	Capstan Motor Rotation Detection Pulse	PULSE	
50	-	AFG	GND	-	
51	OUT	VRO	Servo Standard Voltage Output	-	
52	IN	VRI	Servo Standard Voltage Input	-	
53	-	AVss	AVSS	-	
54	IN	CTLA	CTL Amp. AC GND	-	
55	-	AVDD	AVDD	-	
56	IN/ OUT	CTL (+)	Playback/Record Control Signal (+)	-	
57	IN/ OUT	CTL (-)	Playback/Record Control Signal (-)	-	
58	OUT	CTL	Amp. Output Control Signal for Test Point	-	
59	-	N.U.	Not Used	-	
60	IN	POW- MONITO R	DVD Power Monitor Signal (P-off="L", P-on="H")	H/L	
61	-	N.U.	Not Used	-	
62	IN	END-S	Tape End Position Detect Signal	A/D	
63	IN	AFC	Automatic Frequency Control Signal	A/D	
64	IN	V-ENV	Video Envelope Comparator Signal	A/D	
65	IN	PG- DELAY	Video Head Switching Pulse Signal Adjusted Voltage	A/D	
66	IN	KEY-2	A/D Key Data Signal 2	A/D	
67	IN	KEY-1	A/D Key Data Signal	A/D	
68	IN	LD-SW	Deck Mode Position Detector Signal	A/D	
69	IN	ST-S	Tape Start Position Detector Signal	A/D	
70	OUT	VCR-IND	VCR Mode LED Signal Output	H/L	
71	OUT	DVD-IND	DVD Mode LED Signal Output	H/L	
72	OUT	REC-IND	REC Mode LED Signal Output	L	
73	-	N.U.	Not Used	-	
74	-	N.U.	Not Used	-	

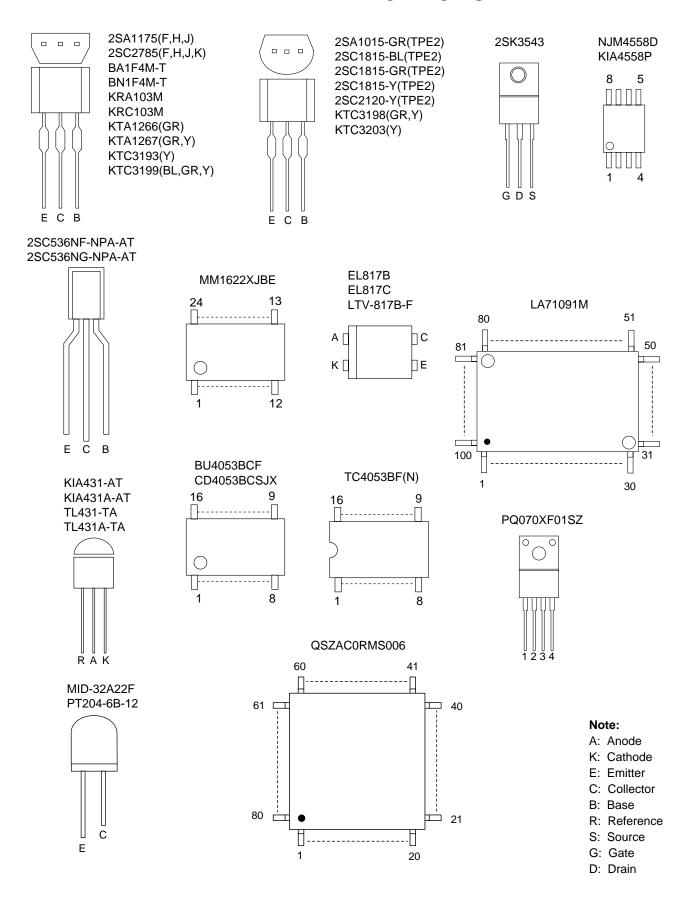
Pin No.	IN/ OUT	Signal Name	Function	Active Level
75	OUT	TIMER- IND	"TIMER" LED Signal Output	H/L
76	OUT	CONV- SW	RF Conv. Output Channel Switching Signal 3ch="Hi-z", 4ch="L"	Hi-z/L
77	OUT	VCR/TV	RF Conv. ON/OFF Signal (TV="L"/ VCR="H")	H/L
78	OUT	C-ROTA	Color Phase Rotary Changeover Signal	H/L
79	OUT	H-A-SW	Video Head Amp Switching Pulse	H/L
80	IN	H-A- COMP	Head Amp Comparator Signal	H/L

Notes:

Abbreviation for Active Level:
PWM -----Pulse Wide Modulation
A/D-----Analog - Digital Converter

1-15-2 H94X1PIN

LEAD IDENTIFICATIONS



1-16-1 H94X1LE

DECK MECHANISM SECTION

DVD PLAYER & VIDEO CASSETTE RECORDER EWD2203/EWD2003

Sec. 2: Deck Mechanism Section

- Standard Maintenance
- Alignment for Mechanism
- Disassembly/Assembly of Mechanism
- Alignment Procedures of Mechanism

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Service Fixtures and Tools	2-2-1
Mechanical Alignment Procedures	2-3-1
Disassembly / Assembly Procedures of Deck Mechanism	2-4-1
Alignment Procedures of Mechanism	2-4-9

STANDARD MAINTENANCE

Service Schedule of Components

H: Hours →: Check →: Change

	Deck	Periodic Service Schedule							
Ref.No.	Part Name	1,000 H	2,000 H	3,000 H	4,000 H				
B2	Cylinder Assembly	0	•	•	•				
В3	Loading Motor Assembly			•					
B8	Pulley Assembly		•		•				
B587	Tension Lever Assembly		•		•				
B31	AC Head Assembly			•					
B573,B574	Reel (SP)(D2), Reel (TU)(D2)			•					
B37	Capstan Motor		•		•				
B52	Cap Belt		•		•				
*B73	FE Head			•					
B133,B134	Idler Gear, Idler Arm		•		•				
B410	Pinch Arm(A) Assembly		•		•				
B414	M Brake (SP) Assembly		•		•				
B416	M Brake (TU) Assembly		•		•				
B525	LDG Belt		•		•				
B569 (2 head only)	Cam Holder (F)		•		•				
B593 (4 head, 4 head HiFi only)	Cam Holder (F) Assembly		•		•				

Notes:

- 1.Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / Audio Control Head / Full Erase Head) using 90% Isopropyl Alcohol.
- 2. After cleaning the parts, do all DECK ADJUSTMENTS.
- 3. For the reference numbers listed above, refer to Deck Exploded Views.
 - * B73 ----- Recording Model only

2-1-1 U27MEN

Cleaning

Cleaning of Video Head

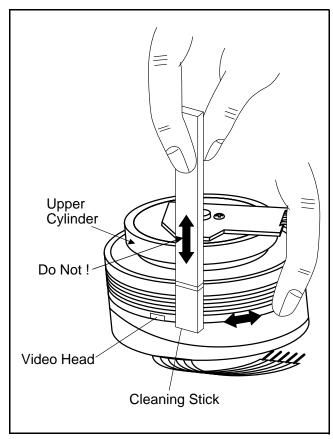
Clean the head with a head cleaning stick or chamois cloth.

Procedure

- 1.Remove the top cabinet.
- 2.Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
- 3.Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

Notes:

- 1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit.
- 3.Do not reuse a stained head cleaning stick or a stained chamois cloth.



Cleaning of Audio Control Head

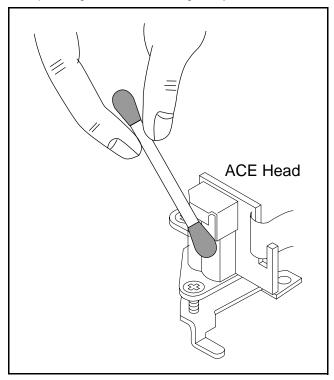
Clean the head with a cotton swab.

Procedure

- 1.Remove the top cabinet.
- 2.Dip the cotton swab in 90% isopropyl alcohol and clean the audio control head. Be careful not to damage the upper drum and other tape running parts.

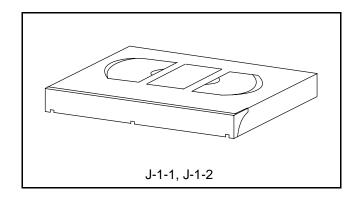
Notes:

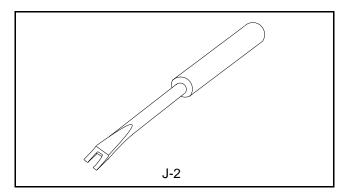
- 1. Avoid cleaning the audio control head vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.

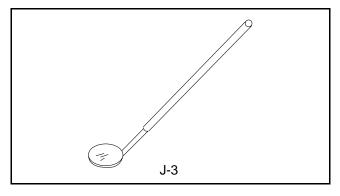


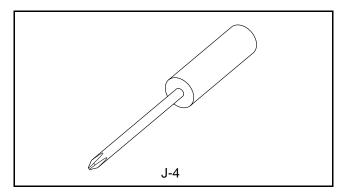
2-1-2 U27MEN

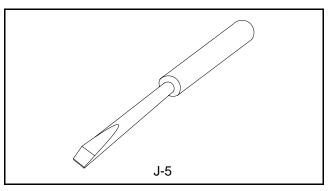
SERVICE FIXTURE AND TOOLS











Ref. No.	Name	Part No.	Adjustment		
J-1-1	Alignment Tape	FL8A	Head Adjustment of Audio Control Head		
J-1-2	Alignment Tape	FL8N (2Head only) FL8NW (4Head only)	Azimuth and X Value Adjustment of Audio Control Head / Adjustment of Envelope Waveform		
J-2	Guide Roller Adj.Screwdriver	Available Locally	Guide Roller		
J-3	Mirror	Available Locally	Tape Transportation Check		
J-4	Azimuth Adj.Screwdriver +	Available Locally	A/C Head Height		
J-5	X Value Adj.Screwdriver -	Available Locally	X Value		

2-2-1 U25NFIX

MECHANICAL ALIGNMENT PROCEDURES

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit.

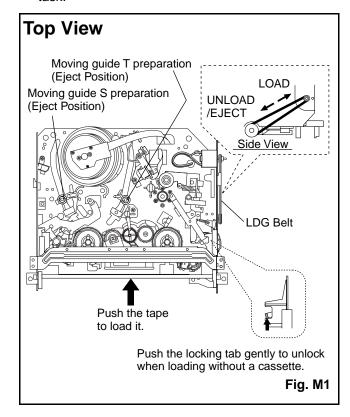
Service Information

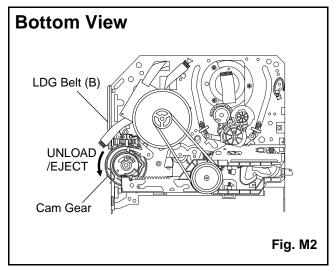
- A. Method for Manual Tape Loading/Unloading
- To load a cassette tape manually:
- 1. Disconnect the AC plug.
- 2. Remove the Top Case and Front Assembly.
- 3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
- 4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 for a minute or two to complete this task.

To unload a cassette tape manually:

- 1. Disconnect the AC plug.
- 2. Remove the Top Case and Front Assembly.
- 3. Make sure that the Moving guide preparations are in the Eject Position.
- 4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 until the Moving guide preparations come to the Eject Position. Stop turning when the preparations begin clicking or can not be moved further. However, the tape will be left wound around the cylinder.
- 5. Turn the LDG Belt in the appropriate direction continuously, and the cassette tape will be ejected. Allow a minute or two to complete this task.

- **B.** Method to place the Cassette Holder in the tapeloaded position without a cassette tape
- 1. Disconnect the AC Plug.
- 2. Remove the Top Case and Front Assembly.
- Turn the LDG Belt in the appropriate direction shown in Fig. M1. Release the locking tabs shown in Fig. M1 and continue turning the LDG Belt until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.





2-3-1 U27NMA

1. Tape Interchangeability Alignment

Note:

To do these alignment procedures, make sure that the Tracking Control Circuit is set to the center position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 2.)

Equipment required:

Dual Trace Oscilloscope

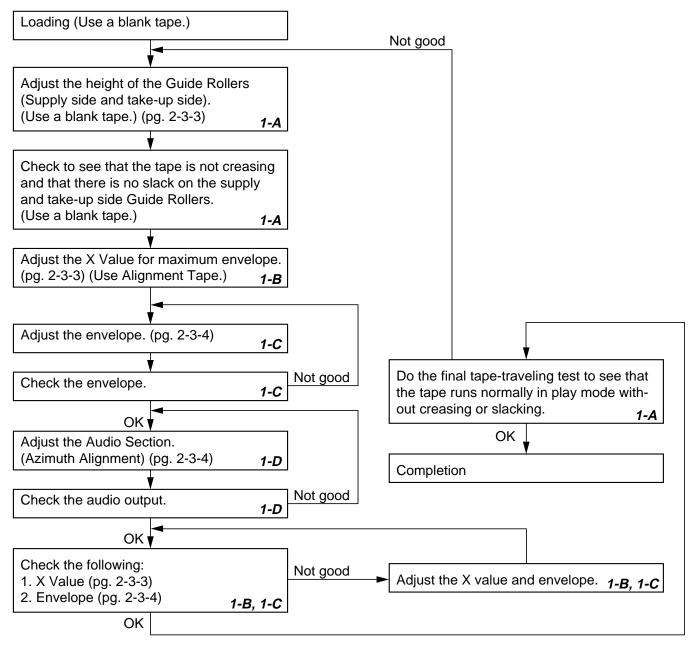
VHS Alignment Tape (FL8NW)

Guide Roller Adj. Screwdriver

X-Value Adj. Screwdriver

Note: Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.

Flowchart of Alignment for tape traveling



2-3-2 U27NMA

1-A. Preliminary/Final Checking and Alignment of Tape Path

Purpose:

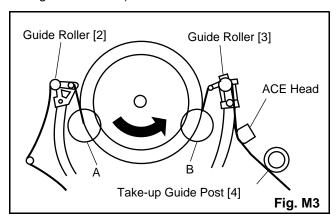
To make sure that the tape path is well stabilized.

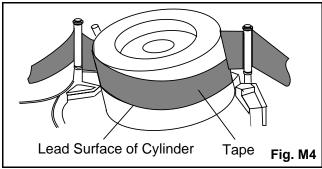
Symptom of Misalignment:

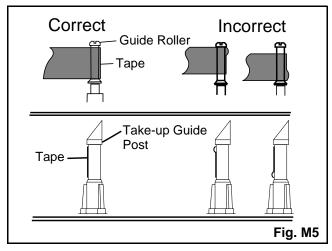
If the tape path is unstable, the tape will be damaged.

Note: Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

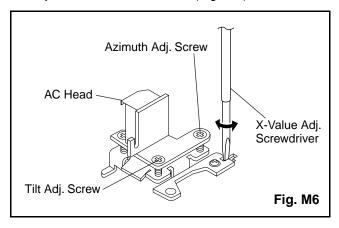
- Playback a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig. M3 and M4.)
- If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)







- 3. Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and AC Head. (Fig. M3 and M5)
- 4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the AC Head. (Fig. M6)



1-B. X Value Alignment

Purpose:

To align the Horizontal Position of the Audio/Control/ Erase Head.

Symptom of Misalignment:

If the Horizontal Position of the Audio/Control/Erase Head is not properly aligned, maximum envelope cannot be obtained at the Neutral position of the Tracking Control Circuit.

- Connect the oscilloscope to TP301 (C-PB) and TP513 (CTL) on the Main CBA. Use TP302 (RF-SW) as a trigger.
- Playback the Gray Scale of the Alignment Tape (FL8NW) and confirm that the PB FM signal is present.
- Set the Tracking Control Circuit to the center position by pressing CH UP button then "PLAY" button on the unit. (Refer to note on bottom of page 2-3-4.)
- Use the X-Value Adj. Screwdriver so that the PB FM signal at TP301 (C-PB) is maximum. (Fig. M6)
- 5. Press CH UP button on the unit until the CTL waveform has shifted by approx. +2msec. Make sure that the envelope is simply attenuated (shrinks in height) during this process so that you will know the envelope has been at its peak.

2-3-3 U27NMA

- 6. Press CH DOWN button on the unit until the CTL waveform has shifted from its original position (not the position achieved in step 5, but the position of CTL waveform in step 4) by approximately -2msec. Make sure that the envelope is simply attenuated (shrinks in height) once CTL waveform passes its original position and is further brought in the minus direction.
- Set the Tracking Control Circuit to the center position by pressing CH UP button and then "PLAY" button.

1-C. Checking/Adjustment of Envelope Waveform

Purpose:

To achieve a satisfactory picture and precise tracking.

Symptom of Misalignment:

If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

- 1. Connect the oscilloscope to TP301 (C-PB) on the Main CBA. Use TP302 (RF-SW) as a trigger.
- 2. Playback the Gray Scale on the Alignment Tape (FL8NW). Set the Tracking Control Circuit to the center position by pressing CH UP button and then "PLAY" button on the unit. Adjust the height of Guide Rollers [2] and [3] (Fig. M3, Page 2-3-3) watching the oscilloscope display so that the envelope becomes as flat as possible. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
- 3. If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- 4. If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- 5. When Guide Rollers [2] and [3] (Refer to Fig.M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.

Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure center position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the "X Value Alignment."

1-D. Azimuth Alignment of Audio/Control/ Erase Head

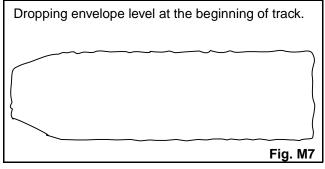
Purpose:

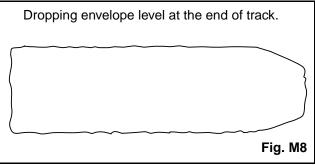
To correct the Azimuth alignment so that the Audio/Control/Erase Head meets tape tracks properly.

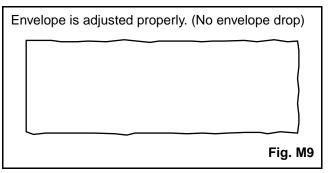
Symptom of Misalignment:

If the position of the Audio/Control/Erase Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

- 1. Connect the oscilloscope to the audio output jack on the rear side of the deck.
- Playback the alignment tape (FL8NW) and confirm that the audio signal output level is 8kHz.
- Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform on the oscilloscope is at maximum. (Fig. M6)







2-3-4 U27NMA

DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

Before following the procedures described below, be sure to remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS on page 1-7-1.)

All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [41] and [42] in Fig.DM1 on page 2-4-3. When reassembling, follow the steps in reverse order.

OTED	OTART	PART		REMOVAL INSTALLATION		
STEP /LOC. No.	START- ING No.			Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Guide Holder A	Т	DM3	2(S-1)	
[2]	[1]	Cassette Holder Assembly	Т	DM4		
[3]	[2]	Slider (SP)	Т	DM5	(S-1A), *(L-1)	
[4]	[2]	Slider (TU)	Т	DM5	*(L-2)	
[5]	[4]	Lock Lever	Т	DM5	*(L-3),*(P-1)	
[6]	[2]	Cassette Plate	Т	DM5		
[7]	[7]	Cylinder Assembly	Т	DM1,DM6	Desolder, 3(S-2)	
[8]	[8]	Loading Motor Assembly	Т	DM1,DM7	Desolder, LDG Belt, 2(S-3)	
[9]	[9]	AC Head Assembly	Т	DM1,DM7	(S-4)	
[10]	[2]	Tape Guide Arm Assembly	Т	DM1,DM8	*(P-2)	
[11]	[10]	C Door Opener	Т	DM1,DM8	*(L-4)	
[12]	[11]	Pinch Arm (B)	Т	DM1,DM8	*(P-3)	
[13]	[12]	Pinch Arm Assembly	Т	DM1,DM8		
[14]	[14]	FE Head Assembly	Т	DM1,DM9	(S-5)	
[15]	[15]	Prism	Т	DM1,DM9	(S-6)	
[16]	[2],[15]	Sensor Gear	Т	DM1,DM15		
[17]	[2]	Slider Shaft	Т	DM10	*(L-5)	
[18]	[17]	C Drive Lever (SP)	Т	DM10		
[19]	[17]	C Drive Lever (TU)	Т	DM10	(S-7),*(P-4)	
[20]	[7],[8], [10]	Capstan Motor	В	DM2,DM11	3(S-8), Cap Belt	
[21]	[21]	Clutch Assembly	В	DM2,DM12	(C-1)	
[22]	[22]	Cam Holder (F) Assembly	В	DM2,DM12	*(L-6)	
[23]	[23]	Cam Gear (B)	В	DM2,DM12	(C-4)*(P-5)	
[24]	[24]	Mode Gear	В	DM2,DM13	(C-2)	
[25]	[21],[23], [24]	Mode Lever	В	DM2,DM13	(C-3), *(L-8)	
[26]	[22]	Worm Holder	В	DM2,DM13	(S-9),*(L-9),*(L-10)	
[27]	[26]	Pulley Assembly	В	DM2,DM13		
[28]	[25],[26]	Cam Gear (A)	В	DM2,DM13		
[29]	[25]	Idler Gear	В	DM1,DM14		
[30]	[29]	Idler Arm	В	DM1,DM14	*(L-11)	
[31]	[25]	BT Arm	В	DM2,DM14	*(P-6)	
[32]	[25]	Loading Arm (SP) Assembly	В	DM2,DM14		(+)Refer to Alignment Sec.Pg.2-4-9

2-4-1 H94X1DA

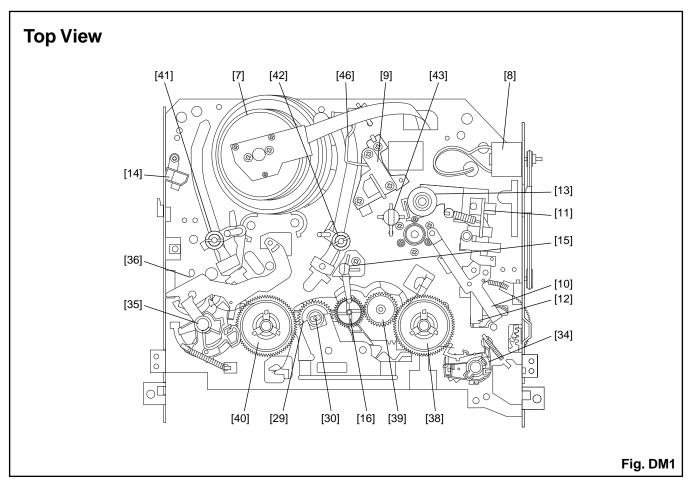
STEP	START-	PART		REMOVAL		INSTALLATION
/LOC. No.	ING No.			Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[33]	[32]	Loading Arm (TU) Assembly	В	DM2,DM14		(+)Refer to Alignment Sec.Pg.2-4-9
[34]	[2],[25]	M Brake (TU) Assembly	Т	DM1,DM15	*(P-7), Brake Belt	
[35]	[2],[25]	M Brake (SP) Assembly	Т	DM1,DM15	*(P-8)	
[36]	[35]	Tension Lever Assembly	Т	DM1,DM15		
[37]	[36]	T Lever Holder	Т	DM15	*(L-12)	
[38]	[34]	Reel (TU)(D2)	Т	DM1,DM15		
[39]	[38]	M Gear	Т	DM1,DM15		
[40]	[36]	Reel (SP)(D2)	Т	DM1,DM15		
[41]	[32],[36]	Moving Guide S Preparation	Т	DM1,DM16		
[42]	[33]	Moving Guide T Preparation	Т	DM1,DM16		
[43]	[19]	TG Post Assembly	Т	DM1,DM16	*(L-13)	
[44]	[28]	Rack Assembly	R	DM17		(+)Refer to Alignment Sec.Pg.2-4-9
[45]	[44]	F Door Opener	R	DM17		
[46]	[46]	Cleaner Assembly	Т	DM1,DM6		
[47]	[46]	CL Post	T	DM6	*(L-14)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

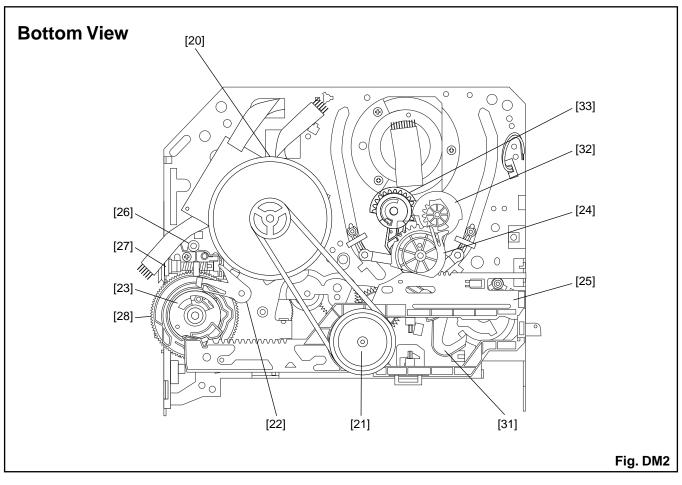
(1): Follow steps in sequence. When reassembling, follow the steps in reverse order.

These numbers are also used as identification (location) No. of parts in the figures.

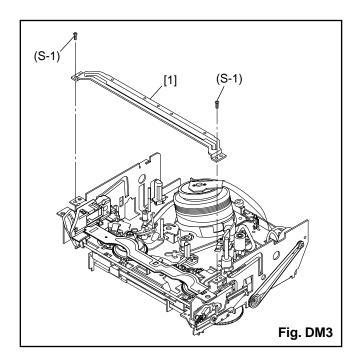
- (2): Indicates the part to start disassembling with in order to disassemble the part in column (1).
- (3): Name of the part
- (4): Location of the part: T=Top B=Bottom R=Right L=Left
- (5): Figure Number
- (6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered. P=Spring, W=Washer, C=Cut Washer, S=Screw, *=Unhook, Unlock, Release, Unplug, or Desolder e.g., 2(L-2) = two Locking Tabs (L-2).
- (7): Adjustment Information for Installation
 - (+):Refer to Deck Exploded Views for lubrication.

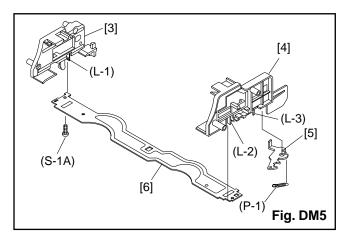
2-4-2 H94X1DA

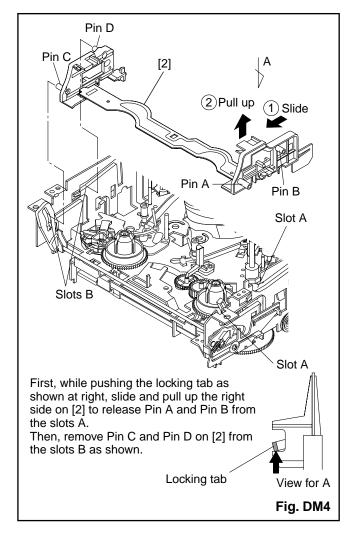


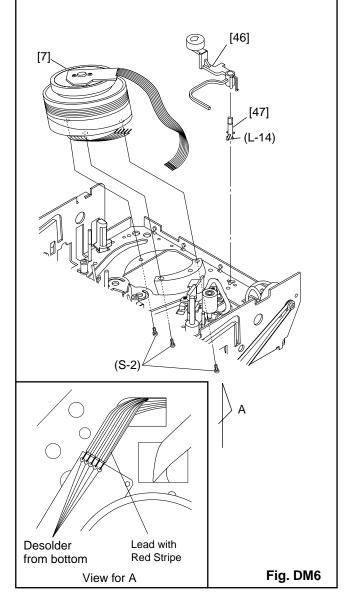


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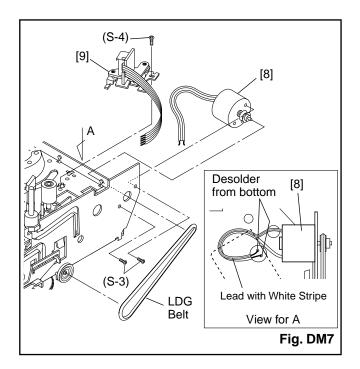


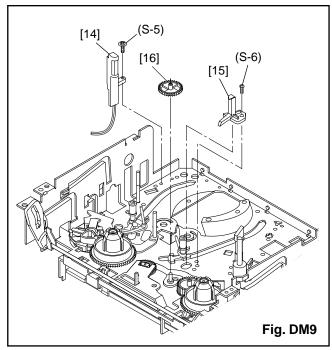


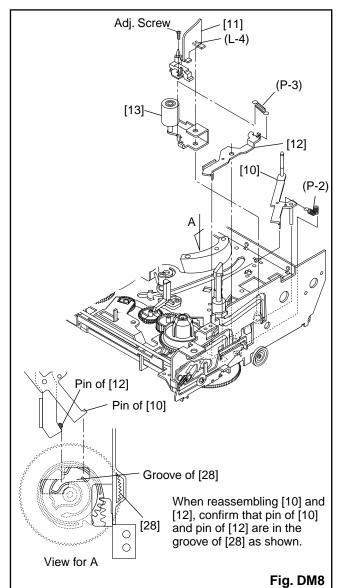


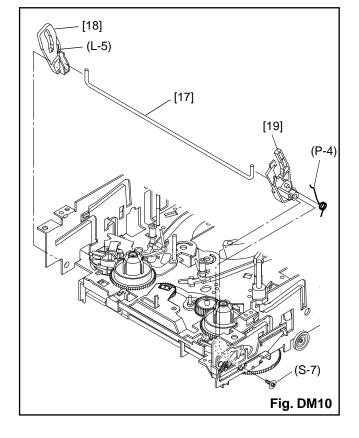


2-4-4 H94X1DA

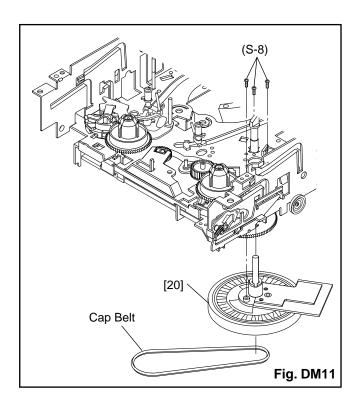


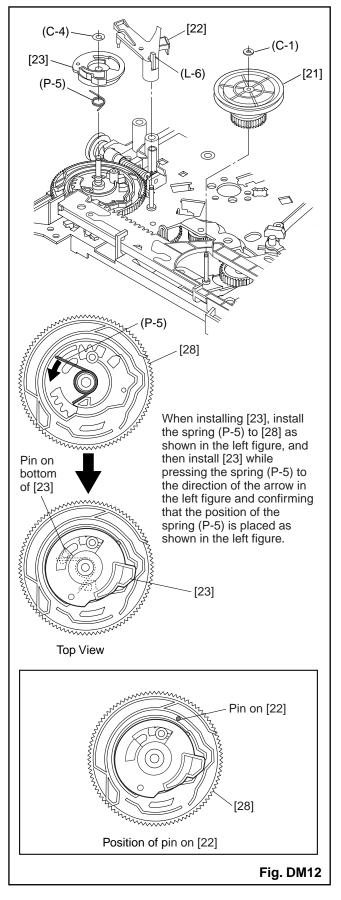




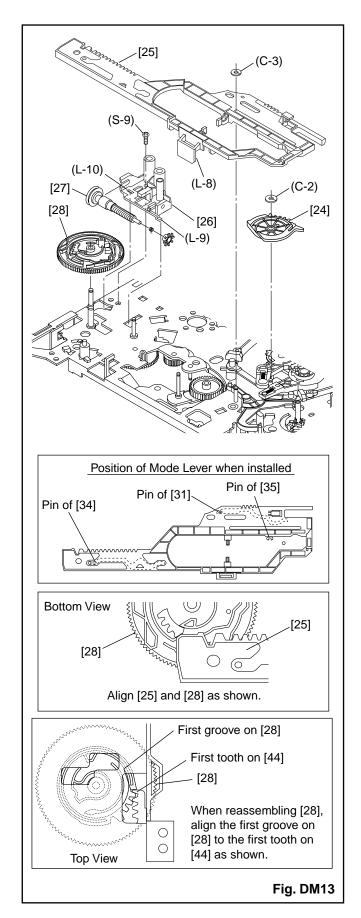


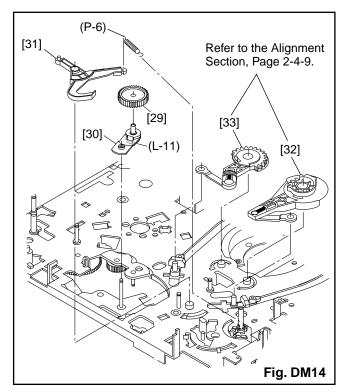
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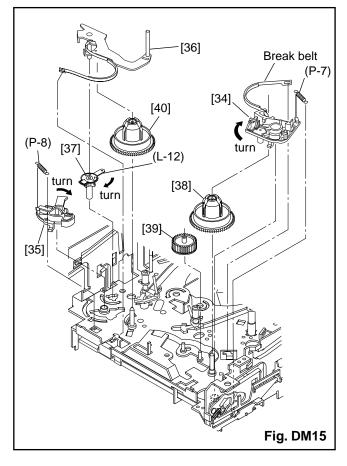




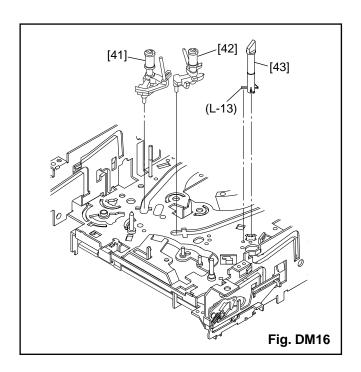
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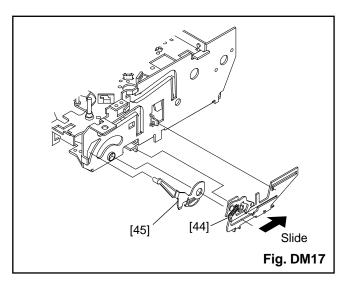






2-4-7 H94X1DA





2-4-8 H94X1DA

ALIGNMENT PROCEDURES OF MECHANISM

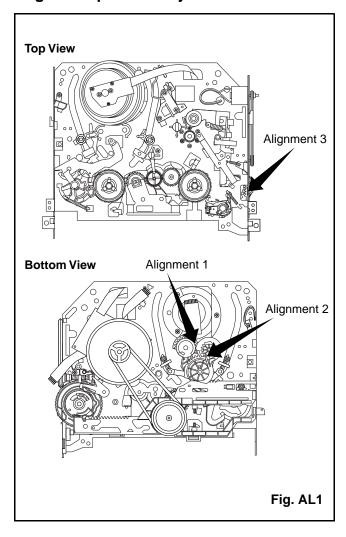
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

All alignments are to be performed with the mechanism in Eject mode, in the sequence given. Each procedure assumes that all previous procedures have been completed.

IMPORTANT:

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

Alignment points in Eject Position



Alignment 1

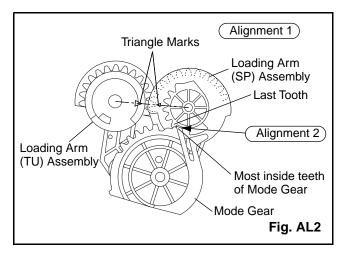
Loading Arm (SP) and (TU) Assembly

Install Loading Arm (SP) and (TU) Assembly so that their triangle marks point to each other as shown in Fig. AL2.

Alignment 2

Mode Gear

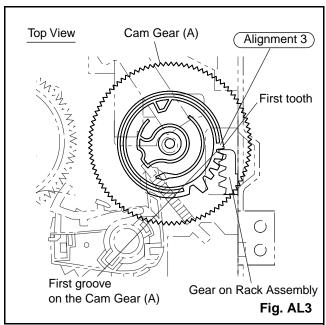
Keeping the two triangles pointing at each other, install the Loading Arm (SP) Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.



Alignment 3

Cam Gear (A), Rack Assembly

Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) as shown in Fig. AL3.



2-4-9 U27NAPM

EXPLODED VIEWS AND PARTS LIST SECTION

DVD PLAYER & VIDEO CASSETTE RECORDER

EWD2203/EWD2003

Sec. 3: Exploded views and Parts List Section

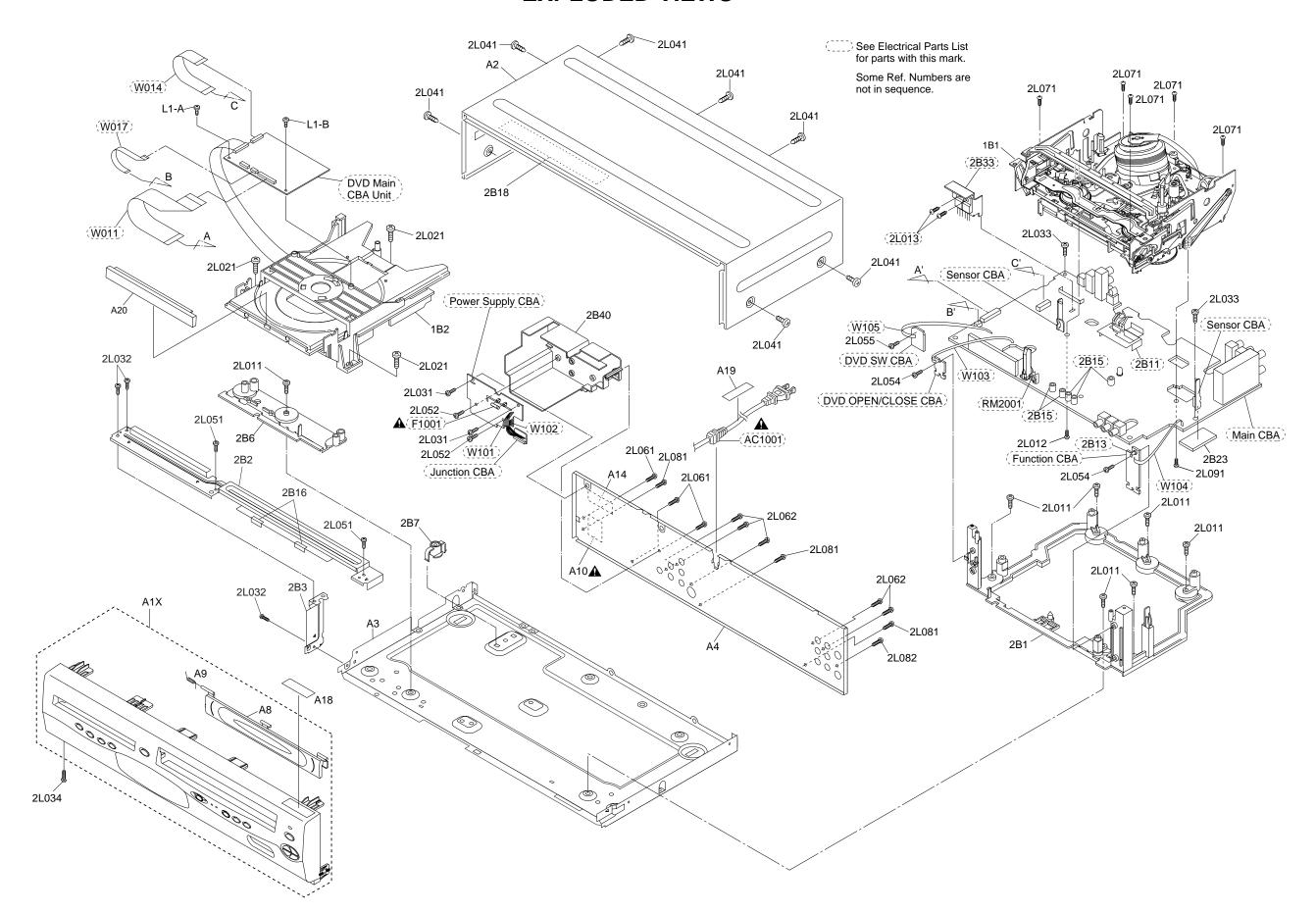
- Exploded views
- Parts List

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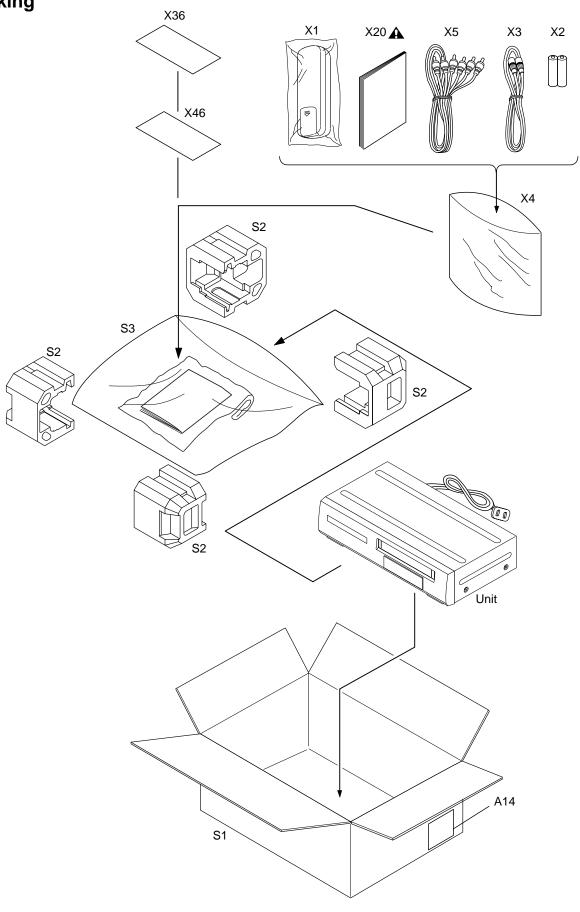
Exploded Views	. 3-1-1
Mechanical Parts List	. 3-2-1
Electrical Parts List	. 3-3-1
Deck Parts List	. 3-4-1

EXPLODED VIEWS

Cabinet



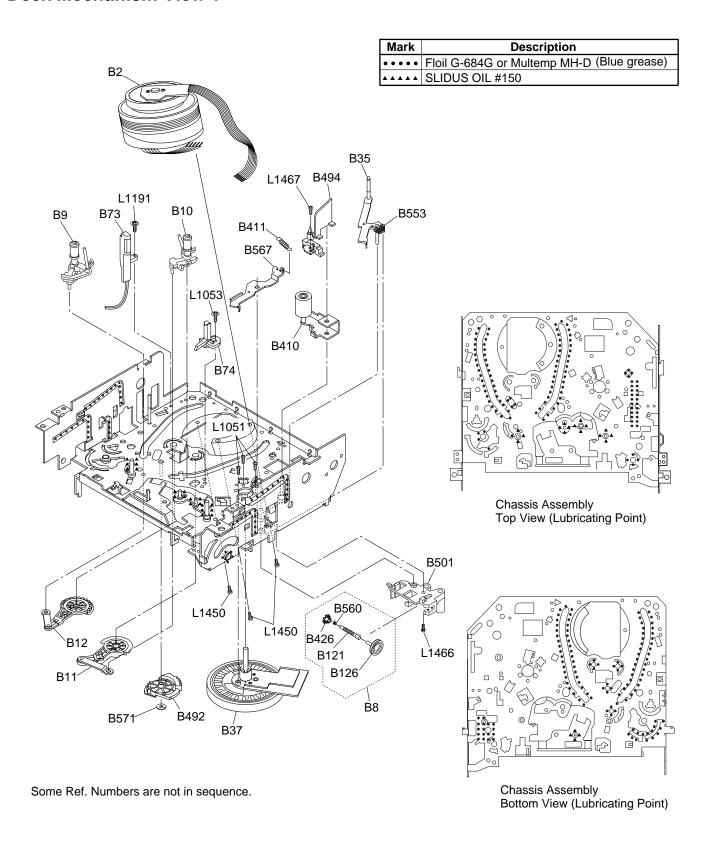




3-1-3 H94X1PEX

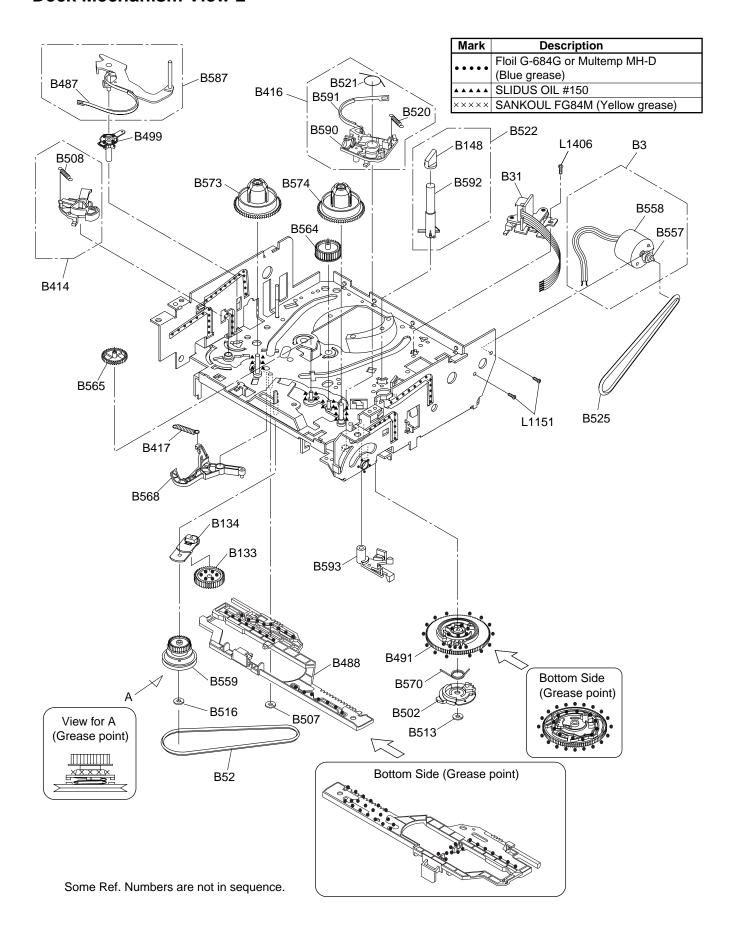
DECK EXPLODED VIEWS

Deck Mechanism View 1



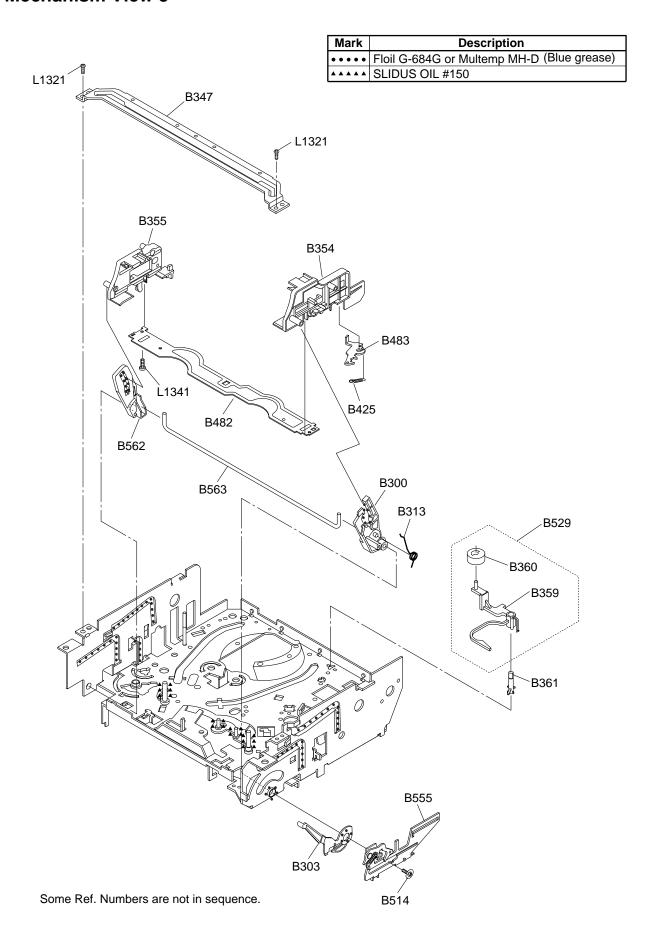
3-1-4 H94X1DEX

Deck Mechanism View 2



3-1-5 H94X1DEX

Deck Mechanism View 3



3-1-6 H94X1DEX

MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ♠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE:

Parts that are not assigned part numbers (-----) are not available.

Comparison Chart of Models and Marks

Model	Mark
EWD2203	Α
EWD2003	В

Ref. No.	Mark	Description	Part No.
A1X	Α	FRONT ASSEMBLY H9410UD	0VM204041
A1X	В	FRONT ASSEMBLY H94A4UD	0VM204460
A2		TOP COVER H9400UD	0VM101208
A3		CHASSIS(E4+U27) H9400UD	0VM101207
A4		PANEL, REAR H9410UD	0VM204006
A8	Α	DOOR, CASSETTE H9410UD	0VM305940
A8	В	DOOR, CASSETTE H94A4UD	0VM416103
A9		SPRING, DOOR H7220UD U15	0VM408617
A10 ▲	Α	LABEL, RATING(U) H94X1UD or	
A	Α	LABEL, RATING(D) H94X1UD	
A10 ▲	В	LABEL, RATING(U) H94X2UD or	
A	В	LABEL, RATING(D) H94X2UD	
A14		LABEL, BAR CODE HB400UD	
A14	Α	LABEL, BAR CODE H9410UD	
A14	В	LABEL, BAR CODE H94A4UD	
A18		LABEL, TELEPHONE NUMBER H7931UD(EMERSON)	
A19		HOLDER, EAS(H9410UD) MAKER NO.EM150DR	0VM415877
A20	Α	PANEL, TRAY H9410UD	0VM101245
A20	В	PANEL, TRAY H94A4UD	0VM416109
1B1		DECK ASSEMBLY CZD012/VM1640	N1640FL
1B2		DVD MECHA 0838 VCDVM040	N79F0GVM
2B1		DECK PEDESTAL-1 H9400UD	0VM101201-1
2B2		TOP BRACKET H9100UD	0VM203252A
2B3		SIDE BRACKET H9100UD	0VM305013
2B6		DECK PEDESTAL-2 H9400UD	0VM101201-2
2B7		DECK PEDESTAL-3 H9400UD	0VM101201-3
2B16		TAPE, HIMELON H9206JD	0VM413956
2B18		FIBER, TOP CASE HC460ED	0VM412906
2B23		M-PCB RUBBER H9400UD	0VM415762
2B40		INSULATOR H9400UD	0VM305872
2L011		SCREW, S-TIGHT M3X8 BIND + CHROME	GBMS3080
2L012		SCREW, S-TIGHT M3X8 BIND + CHROME	GBMS3080
2L021		SCREW, S-TIGHT M3X26 H9400UD	0VM414507
2L031		SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
2L032		SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
2L033		SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
2L034		SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060
2L041		SCREW, C-TIGHT M3X5 BIND HEAD +	GBCC3050

Ref. No.	Mark	Description	Part No.
2L051		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L052		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L054		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L055		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L061		SCREW, B-TIGHT M3X8 BIND HEAD +	GBKB3080
2L062		SCREW, B-TIGHT M3X8 BIND HEAD +	GBKB3080
2L071		SCREW, P-TIGHT M3X10 WASHER HEAD+	GCMP3100
2L081		SCREW, S-TIGHT M3X5 BIND HEAD +	GBKS3050
2L082		SCREW, S-TIGHT M3X5 BIND HEAD +	GBKS3050
2L091		SCREW, P-TIGHT M3X8 BIND HEAD+	GBCP3080
		PACKING	
S1	Α	GIFT BOX CARTON H9410UD	0VM306061A
S1	В	GIFT BOX CARTON H94A4UD	0VM306665
S2		STYROFOAM(2) H9100UD	0VM203377C
S3		UNIT, BAG E5500UD	0VM411683
		ACCESSORIES	
X1		REMOTE CONTROL UNIT 364/CRC007 or	NA209UD
		REMOTE CONTROL UNIT 364/CRC007	NA259UD
X2		DRY BATTERY R6P/2S or	XB0M451T0001
		DRY BATTERY ES-GR6M-C	XB0M571GLP01
X3		RF CABLE 2.5C-2V	WPZ0901TM002
X4		ACCESSORY BAG H3600UD T=0.03	0VM409454
X5		AV CORD TSCKA-Y/RW100 or	WPZ0102TM015
		AV CORD RCA(M*2)TO RCA(M*2)	WPZ0102LTE01
X20A	Α	OWNER'S MANUAL H9410UD	0VMN03468
X20A	В	OWNER'S MANUAL H94A4UD	0VMN03884
X36		RETURN STOP SHEET H9410UD	0VM414898
X46		DVD RENTAL SHEET H9410UD	0VMN03694

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ♠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

- 1. Parts that are not assigned part numbers (-----) are not available.
- 2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C±0.25%	D±0.5%	F±1%
G±2%	J±5%	K±10%
M±20%	N±30%	Z+80/-20%

3. LED Type:

When it is necessary to replace one or more of the following diodes, all six should be replaced: D564, D565, D566, D567, D2001 and D2002 on the Main CBA.

DVD MAIN CBA UNIT

Ref. No.	Description	Part No.
	DVD MAIN CBA UNIT	N7BFNGUP

MCV CBA

Ref. No.	Description	Part No.
	MCV CBA Consists of the following	0VSA14670
	MAIN CBA (MCV-A) FUNCTION CBA (MCV-B) DVD OPEN/CLOSE CBA(MCV-C) DVD SW CBA(MCV-D) SENSOR CBA	 0VSA13627

MAIN CBA

Ref. No.	Description	Part No.
	MAIN CBA(MCV-A) Consists of the following	
	CAPACITORS	•
C023	ELECTROLYTIC CAP. 100μF/25V M or	CE1EMASDL101
	ELECTROLYTIC CAP. 100μF/25V M	CE1EMASTL101
C051	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C053	ELECTROLYTIC CAP. 100µF/6.3V M or	CE0KMASDL101
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101
C060	CERAMIC CAP.(AX) B K 0.1μF/25V	CCA1EKT0B104
C253	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C255	CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZ30F103
C256	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C257	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104

Ref. No.	Description	Part No.
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C308	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C309	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C310	CHIP CERAMIC CAP. F Z 0.1μF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C311	CHIP CERAMIC CAP CH J 390pF/50V or	CHD1JJBCH391
	CHIP CERAMIC CAP CH J 390pF/50V or	CHD1JJ3CH391
	CHIP CERAMIC CAP CG J 390pF/50V	CHD1JJ3CG391
C312	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C314	CHIP CERAMIC CAP.(MELF) SL J 100pF/50V or	CZM1JJBSL101
	CHIP CERAMIC CAP(MELF) SL J 100pF/50V	CZM1JJ3SL101
C315	CHIP CERAMIC CAP(MELF) SL J 100pF/50V or	CZM1JJBSL101
	CHIP CERAMIC CAP(MELF) SL J 100pF/50V	CZM1JJ3SL101
C320	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C321	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C322	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C324	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C325	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C326	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C329	CHIP CERAMIC CAP (MELF) F Z 0.01µF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP(MELF) F Z 0.01µF/16V	CZM1CZ30F103
C330	CHIP CERAMIC CAP (MELF) F Z 0.01µF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP(MELF) F Z 0.01µF/16V	CZM1CZ30F103
C332	CHIP CERAMIC CAP. B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C333	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C335	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C336	CHIP CERAMIC CAP. B K 0.047µF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047µF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP(1608) B K 0.047µF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C337	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C339	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C340	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C341	CHIP CERAMIC CAP. B K 0.01μF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C344	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C345	CHIP CERAMIC CAP. B K 0.01μF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C346	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C347	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C348	CHIP CERAMIC CAP. B K 0.047μF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047μF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C349	CHIP CERAMIC CAP. B K 0.047µF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047µF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473

Ref. No.	Description	Part No.
C352	CHIP CERAMIC CAP. B K 0.047μF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047μF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C353	CHIP CERAMIC CAP. B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C354	CHIP CERAMIC CAP. CH J 68pF/50V or	CHD1JJBCH680
	CHIP CERAMIC CAP. CH J 68pF/50V or	CHD1JJ3CH680
	CHIP CERAMIC CAP. CG J 68pF/50V	CHD1JJ3CG680
C391	ELECTROLYTIC CAP. 100µF/10V M H7	CE1AMAVSL101
C392	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C401	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP (1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C402	CHIP CERAMIC CAP F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C403	CHIP CERAMIC CAP. F Z 0.1μF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C404	ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C405	ELECTROLYTIC CAP. 33µF/6.3V M H7	CE0KMAVSL330
C406	CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZ30F103
C408	ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C409	CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V or	CZM1CKB0Y472
	CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V	CZM1CK30Y472
C410	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C411	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V or	CZM1GKB0Y222
•	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V	CZM1GK30Y222
C413	CHIP CERAMIC CAP. B K 0.012µF/50V or	CHD1JKB0B123
	CHIP CERAMIC CAP. B K 0.012µF/50V	CHD1JK30B123
C415	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C417	CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V or	CZM1GKB0Y102
01117	CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V	CZM1GK30Y102
C418	CHIP CERAMIC CAP. B K 2700pF/50V or	CHD1JKB0B272
0+10	CHIP CERAMIC CAP. B K 2700pF/50V	CHD1JK30B272
C419	CHIP CERAMIC CAP. B K 0.01µF/50V or	CHD1JKB0B103
0+10	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C421	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C422	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C423	ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C423	CERAMIC CAP. B K 470pF/100V	CCD2AKS0B471
C424 C425	FILM CAP.(P) 0.018µF/100V J or	CMA2AJS00183
0420	, , ,	CA1J183MS029
CEO2	FILM CAP.(P) 0.018μF/50V J	
C502	ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C505	ELECTROLYTIC CAP 1::E/50\AALIZ	CE1AMAVSL220
C507	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C508	CHIP CERAMIC CAP B K 0.022µF/50V or	CHD1JKB0B223
	CHIP CERAMIC CAP. B K 0.022µF/25V or	CHD1EKB0B223

Ref. No.	Description	Part No.
	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP.(1608) B K 0.022μF/25V	CHD1EK30B223
C509	ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C513	CHIP CERAMIC CAP(MELF) SL D 10pF/50V or	CZM1JDBSL100
	CHIP CERAMIC CAP (MELF) SL D 10pF/50V or	CZM1JD3SL100
	CHIP CERAMIC CAP. CH D 10pF/50V or	CHD1JDBCH100
	CHIP CERAMIC CAP. CH D 10pF/50V or	CHD1JD3CH100
	CHIP CERAMIC CAP CG D 10pF/50V	CHD1JD3CG100
C514	CHIP CERAMIC CAP(MELF) SL J 22pF/50V or	CZM1JJBSL220
	CHIP CERAMIC CAP.(MELF) SL J 22pF/50V or	CZM1JJ3SL220
	CHIP CERAMIC CAP. CH J 22pF/50V or	CHD1JJBCH220
	CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
	CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C515	CHIP CERAMIC CAP.(MELF) SL J 18pF/50V or	CZM1JJBSL180
	CHIP CERAMIC CAP.(MELF) SL J 18pF/50V or	CZM1JJ3SL180
	CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJBCH180
	CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJ3CH180
	CHIP CERAMIC CAP. CG J 18pF/50V	CHD1JJ3CG180
C521	ELECTROLYTIC CAP. 47μF/25V M H7	CE1EMAVSL470
C522	CHIP CERAMIC CAP. B K 4700pF/50V or	CHD1JKB0B472
	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C523	CHIP CERAMIC CAP.(MELF) SL J 100pF/50V or	CZM1JJBSL101
	CHIP CERAMIC CAP.(MELF) SL J 100pF/50V	CZM1JJ3SL101
C525	CHIP CERAMIC CAP. B K 4700pF/50V or	CHD1JKB0B472
	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C527	CHIP CERAMIC CAP. B K 0.047µF/50V or	CHD1JKB0B473
	CHIP CERAMIC CAP. B K 0.047µF/25V or	CHD1EKB0B473
	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) B K 0.047µF/25V	CHD1EK30B473
C529	CHIP CERAMIC CAP. B K 0.022µF/50V or	CHD1JKB0B223
	CHIP CERAMIC CAP. B K 0.022µF/25V or	CHD1EKB0B223
	CHIP CERAMIC CAP.(1608) B K 0.022µF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP(1608) B K 0.022µF/25V	CHD1EK30B223
C530	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C531	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C532	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C533	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C534	CHIP CERAMIC CAP. B K 0.1μF/25V or	CHD1EKB0B104
	CHIP CERAMIC CAP. B K 0.1µF/16V or	CHD1CKB0B104
	CHIP CERAMIC CAP.(1608) B K 0.1µF/25V or	CHD1EK30B104
	CHIP CERAMIC CAP(1608) B K 0.1µF/16V	CHD1CK30B104
C535	ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMAVSL220
C536	CHIP CERAMIC CAP B K 1000pF/50V or	CHD1JKB0B102
0507	CHIP CERAMIC CAP B K 1000pF/50V	CHD1JK30B102
C537	CHIP CERAMIC CAP B K 1000pF/50V or	CHD1JKB0B102
0540	CHIP CERAMIC CAP B K 1000pF/50V	CHD1JK30B102
C540	CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZB0F103 CZM1CZ30F103
C701		
C701	ELECTROLYTIC CAP. 4.7μF/50V M or ELECTROLYTIC CAP. 4.7μF/50V M	CE1JMASDL4R7 CE1JMASTL4R7
C702	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JKB0B222
0102	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C703	ELECTROLYTIC CAP: 100µF/6.3V M or	CE0KMASDL101
5703	ELECTROLYTIC CAP. 100µF/6.3V M	CE0KMASTL101
C704	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
57.04	CHIP CERAMIC CAP: F Z 0.1µF/30V 01 CHIP CERAMIC CAP: F Z 0.1µF/25V 01	CHD13ZB0F104 CHD1EZB0F104
	CHIP CERAMIC CAP. F 2 0.1μF/25V 01 CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD15Z30F104
	CHIP CERAMIC CAP. (1006)1 2 0.1μμ /25V 01	CHD1JZ3FZ104
C707	FILM CAP.(P) 0.039µF/50V J or	CMA1JJS00393
1	FILM CAP.(P) 0.039µF/50V J	CA1J393MS029
	J / 5.555pi /567 6	

Ref. No.	Description	Part No.
C708	ELECTROLYTIC CAP. 0.22μF/50V M or	CE1JMASDLR22
	ELECTROLYTIC CAP. 0.22μF/50V M	CE1JMASTLR22
C709	ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C751	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V or	CZM1GKB0Y222
	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V	CZM1GK30Y222
C752	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V or	CZM1GKB0Y222
	CHIP CERAMIC CAP.(MELF) Y K 2200pF/35V	CZM1GK30Y222
C762	ELECTROLYTIC CAP. 4.7μF/50V M H7	CE1JMASSL4R7
C766	CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZB0F103
	CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZ30F103
C772	ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMASSL4R7
C773	ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMASSL4R7
C777	ELECTROLYTIC CAP. 4.7μF/50V M H7	CE1JMASSL4R7
C780	ELECTROLYTIC CAP. 4.7μF/50V M H7	CE1JMAVSL4R7
C781	ELECTROLYTIC CAP. 4.7μF/50V M H7	CE1JMAVSL4R7
C1015	ELECTROLYTIC CAP. 220µF/6.3V M or	CE0KMASDL221
	ELECTROLYTIC CAP 220μF/6.3V M	CE0KMASTL221
C1038	ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1039	CHIP CERAMIC CAP F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C1040	ELECTROLYTIC CAP 100µF/6.3V M or	CE0KMASDL101
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASTL101
C1042	ELECTROLYTIC CAP 220µF/6.3V M H7	CE0KMAVSL221
C1070	CHIP CERAMIC CAP B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1071	CHIP CERAMIC CAP B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP(1608) B K 0.01µF/50V	CHD1JK30B103
C1201	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1202	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1205	CHIP CERAMIC CAP CH J 220pF/50V or	CHD1JJBCH221
	CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
	CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C1206	CHIP CERAMIC CAP CH J 220pF/50V or	CHD1JJBCH221
	CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
	CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C1207	CHIP CERAMIC CAP. CH J 47pF/50V or	CHD1JJBCH470
	CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
	CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1208	CHIP CERAMIC CAP. CH J 47pF/50V or	CHD1JJBCH470
	CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
	CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1221	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMASSL100
C1222	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1223	CHIP CERAMIC CAP. B K 1000pF/50V or	CHD1JKB0B102
0.220	CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JK30B102
C1224	CHIP CERAMIC CAP. B K 1000pF/50V or	CHD1JKB0B102
O IZE I	CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JK30B102
C1245	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
J1270	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD15ZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V 01 CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD15Z30F104
	CHIP CERAMIC CAP. (1608) F Z 0.1µF/25V or CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1EZ30F104 CHD1JZ3FZ104
C1246	'	_
U1240	CHIP CERAMIC CAP F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
	CHID CEDAMIC CAD(4000) E 7.0 4 · E/E01/ -	CHD4 1730F404
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1JZ30F104 CHD1EZ30F104

Ref. No.	Description	Part No.
	CHIP CERAMIC CAP. FZ Z 0.1μF/50V	CHD1JZ3FZ104
C1247	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1249	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C1350	CHIP CERAMIC CAP. B K 0.47μF/10V or	CHD1AKB0B474
	CHIP CERAMIC CAP.(1608) B K 0.47µF/10V	CHD1AK30B474
C1351	CHIP CERAMIC CAP. B K 0.1μF/25V or	CHD1EKB0B104
	CHIP CERAMIC CAP. B K 0.1µF/16V or	CHD1CKB0B104
	CHIP CERAMIC CAP.(1608) B K 0.1µF/25V or	CHD1EK30B104
	CHIP CERAMIC CAP (1608) B K 0.1µF/16V	CHD1CK30B104
C1353	CHIP CERAMIC CAP. B K 0.47μF/10V or	CHD1AKB0B474
0.000	CHIP CERAMIC CAP(1608) B K 0.47µF/10V	CHD1AK30B474
C1354	CHIP CERAMIC CAP. CH J 100pF/50V or	CHD1JJBCH101
0.00.	CHIP CERAMIC CAP(1608) CH J 100pF/50V or	CHD1JJ3CH101
	CHIP CERAMIC CAP. CG J 100pF/50V	CHD1JJ3CG101
C1355	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
01000	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
C1358	CHIP CERAMIC CAP. CH D 9pF/50V or	CHD1JDBCH9R0
J 1330	-	
C1394	CHIP CERAMIC CAP. CH D 9pF/50V ELECTROLYTIC CAP. 47µF/6.3V M H7	CHD1JD3CH9R0
C1394 C1395	ELECTROLYTIC CAP: 47µF/6.3V M H7 ELECTROLYTIC CAP: 470µF/6.3V M or	CE0KMASSL470 CE0KMASDL471
J 1395	'	
04.400	ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1402	PCB JUMPER D0.6-P5.0	JW5.0T
C1421	CHIP CERAMIC CAP B K 0.01µF/50V or	CHD1JKB0B103
0.1.00	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C1422	CHIP CERAMIC CAP. B K 0.1µF/25V or	CHD1EKB0B104
	CHIP CERAMIC CAP. B K 0.1μF/16V or	CHD1CKB0B104
	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
	CHIP CERAMIC CAP(1608) B K 0.1μF/16V	CHD1CK30B104
C1441	CHIP CERAMIC CAP. B K 0.33μF/10V or	CHD1AKB0B334
	CHIP CERAMIC CAP(1608) B K 0.33μF/10V	CHD1AK30B334
C1442	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1461	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C1462	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1481	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C1482	ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C1523	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C1524	ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C1531	CHIP CERAMIC CAP. B K 0.01µF/50V or	CHD1JKB0B103
	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1532	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C2002	CHIP CERAMIC CAP B K 1000pF/50V or	CHD1JKB0B102
	CHIP CERAMIC CAP B K 1000pF/50V	CHD1JK30B102
C2004	ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C2012	CHIP CERAMIC CAP. F Z 0.1µF/50V or	CHD1JZB0F104
	CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
	CONNECTORS	31 ID 10201 2104
CN11004		ICENIC22 IC004
CN1001	FMN CONNECTOR, SIDE 22P 22FMN-STRK or	JCFNG22JG004
CN11000	FPC/FFC CONNECTOR, 22P HLW22R-2C7	JCHWJ22JE001
CN1003	CONNECTOR BASE, 15P TUC-P15P-B1	J3TUA15TG001

Ref. No.	Description	Part No.
CN1601	FMN CONNECTOR, TOP 16P 16FMN-BTK	JCFNG16JG001
CN2001	FMN CONNECTOR, TOP 4P 04FMN-BTRK	JCFNG04JG002
	DIODES	
D019	RECTIFIER DIODE RL201	NDQZ000RL201
D052	ZENER DIODE DZ-10BSBT265 or	NDTB00DZ10BS
	ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D071	PCB JUMPER D0.6-P7.5	JW7.5T
D080	RECTIFIER DIODE 1N4005	NDQZ001N4005
D081	RECTIFIER DIODE 1N4005	NDQZ001N4005
D100	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D101	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D501	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D555	LED MIE-534A2 or	NPZZM1E534A2
	LED SIR-563ST3F P or	QPQPS1R563ST
	LED SIR-563ST3F Q	QPQQS1R563ST
D701	ZENER DIODE DZ-33BSDT265 or	NDTD00DZ33BS
	ZENER DIODE MTZJT-7733D	QDTD00MTZJ33
D702	ZENER DIODE DZ-6.8BSBT265 or	NDTB0DZ6R8BS
	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D1030	PCB JUMPER D0.6-P5.0	JW5.0T
D1033	RECTIFIER DIODE 1N4005	NDQZ001N4005
D1035	RECTIFIER DIODE 1N4005	NDQZ001N4005
D1036	RECTIFIER DIODE 1N4005	NDQZ001N4005
D1037	PCB JUMPER D0.6-P7.5	JW7.5T
D1038	SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
	SCHOTTKY BARRIER DIODE ERB81-004	AERB81004***
D1040	PCB JUMPER D0.6-P7.5	JW7.5T
D1041	PCB JUMPER D0.6-P10.0	JW10.0T
D1058	RECTIFIER DIODE 1N4005	NDQZ001N4005
D1301	ZENER DIODE DZ-5.6BSBT265 or	NDTB0DZ5R6BS
	ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D2010	PCB JUMPER D0.6-P5.0	JW5.0T
LED EXCL	USIVE(A)	
D564	LED(RED) 204HD/E	NPQZ00204HDE
D565	LED(RED) 204HD/E	NPQZ00204HDE
D566	LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D567	LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D2001	LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D2002	LED(GREEN) 204-10GD/S957	NPQZ10GDS957
LED EXCL	. ,	
D564	LED(RED) LTL-4211N	NPQZLTL4211N
D565	LED(RED) LTL-4211N	NPQZLTL4211N
D566	LED(GREEN) LTL-4231N	NPQZLTL4231N
D567	LED(GREEN) LTL-4231N	NPQZLTL4231N
D2001	LED(GREEN) LTL-4231N	NPQZLTL4231N
D2002	LED(GREEN) LTL-4231N	NPQZLTL4231N
1000.	ICS	0070400615
IC301	IC:Y/C/A LA71091M	QSZBA0RSY012
IC501	MICROCONTROLLER 8BIT MN101D08EFD2	QSZAC0RMS006
IC751	IC:SWITCH TC4053BF(N) or	QSMBA0STS002
	IC:SWITCH BU4053BCF or	QSMDA0SRM010
104665	IC:ANALOG MULTIPLEXERS CD4053BCSJX	NSZBA0TF3071
IC1002	VOLTAGE REGULATOR PQ070XF01SZ	QSZBA0SSH026
IC1004	VOLTAGE REGULATOR PQ070XF01SZ	QSZBA0SSH026
IC1201	IC:OP AMP KIA4558P or	NSZBA0SJY004
104	IC:OP AMP NJM4558D	QSZBA0SJR006
IC1402	DRIVER FOR DVD MM1622XJBE	QSZBA0TMM085

COILS L251 INDUCTOR 22μH-K-26T LAXKATTU20 L303 INDUCTOR (100μH K) LAP02TA101K LAXKATTU20 L304 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV007 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV005 L501 PCB JUMPER D0.6-P5.0 JW5.0T L503 INDUCTOR 17μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K ar LLBD00PKV005 CHOKE COIL 47μH-K ar LLBD00PKV005 CHOKE COIL 47μH-K ar LLBD00PKV005 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER	Ref. No.	Description	Part No.
1251 INDUCTOR 22μH-K-26T LLAXKATTU20 1303 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 1304 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 L421 INDUCTOR 47μH-K-SFT LLARKBSTU470 L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K-26T LLAXKATTU120 L503 INDUCTOR 12μH-K-26T LLAXKATTU477 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU477 L1431 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU474 L1441 CHIP RES.(1608) 1/10W0 Ω αr RRXAZRS20000 L1442 CHIP RES.(1608) 1/10W0 Ω αr RRXAZRS20000 L1442 CHIP RES.(1608)		-	
L303 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 L304 CHOKE COIL 47µH-K or LLBD00PKV0007 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K LLBD00PKV007 L421 INDUCTOR 47µH-K-6FT LLARKBSTU470 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47µH-K or LLBD00PKV007 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K or LLBD00PKV005 L701 INDUCTOR 14µH-K26T LLAXKATTU401 L701 INDUCTOR 14µH-K26T LLAXKATTU407 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1351 INDUCTOR (100µH K) LAP02TA01K LLAXKATTU401 L13351 INDUCTOR (100µH K) LAP02TA47K LLAXKATTU47 L14411 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L14411 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L14421 CHIP RES.(1608)	I 251		LLAXKATTU220
L304 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K LLBD00PKV005 CHOKE COIL 47μH-K LLBD00PKV005 L421 INDUCTOR 47μH-K-6FT LLARKBSTU470 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K er LLBD00PKV007 L503 INDUCTOR 12μH-K-26T LLAXKATTU42 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1030 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU47 L14401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 L1461 CHIP RES.(1608) 1/10W 0 Ω or			
CHOKE COIL 47μH-K or CHOKE COIL 47μH-K CHOKE COIL 47μH-K LLBD00PKT001 L421 INDUCTOR 47μH-K-FFT LLARKBSTU470 L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K or LLBD00PKV007 L503 INDUCTOR 12μH-K-26T LLAXKATTU120 L503 INDUCTOR 12μH-K-26T LLAXKATTU4R7 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1351 INDUCTOR (10μH K) LAP02TA101K LLAXKATTU171 L1351 INDUCTOR(0.47μH K) LAP02TA471K LLAXKATTU471 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000 THANSISTOR 47μH-K-5FT LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LLAKKBTTU470 LTANISISTOR 84DF4M-T Q0520 RES. BUILT-IN TRANISISTOR RAPH-M-T Q0520 RES. BUILT-IN TRANISISTOR BAIF-4M-T Q0560 TRANISISTOR SCS380N-NPA-AT Q0570 TRANISISTOR SCS380N-NPA-AT Q0580 TRANISISTOR SCS380N-NPA-AT Q05900000000000000000000000000000000000			
CHOKE COIL 47μH-K LLBD00PKT001 L421 INDUCTOR 47μH-K-SFT LLARKBSTU470 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K LLBD00PKV005 CHOKE COIL 47μH-K LLBD00PKV005 L701 INDUCTOR 12μH-K-26T LLAKKATTU120 L701 INDUCTOR 4.7μH-K-26T LLAKKATTU120 L701 INDUCTOR 100,4-P5.0 JW5.0T L1039 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100,4-P),H K) LAP02TA101K LLAKKATTU101 L1351 INDUCTOR(10,4-P),H K) LAP02TAR47K LLAXKATTU47 L1401 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1441 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1442 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1481 CHIP RES.(1608) 1/10W Ω Ω RRXAZBSZ0000 CHIP RES.(1608) 1/	2004	a a a a pro-	
L421 INDUCTOR 47μH-K-5FT LLARKBSTU470 L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K er LLBD00PKV005 L503 INDUCTOR 12μH-K-26T LLAXKATTU420 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1401 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU4101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU471 L1401 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1442 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1441 CHIP RES.(1608) 1/10W Ω Ω or RRXAZBSZ0000 L1481 CHIP RES.(1608) 1/10W Ω Ω RRXAZRSZ0000 L1481 CHIP RES.(1608) 1/10W Ω Ω RRXAZBSZ0000		<u>'</u>	
L422 PCB JUMPER D0.6-P5.0 JW5.0T L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K or LLBD00PKV005 CHOKE COIL 47µH-K or LLBD00PKV005 L503 INDUCTOR 12µH-K-26T LLAXKATTU40 L701 INDUCTOR 47µH-K-26T LLAXKATTU47 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1351 INDUCTOR(100µH K) LAP02TA401K LLAXKATTU41 L1351 INDUCTOR(047µH K) LAP02TA471K LLAXKATTU41 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZBS20000	I 421	'	
L501 PCB JUMPER D0.6-P5.0 JW5.0T L502 CHOKE COIL 47µH-K or LLBD00PKV0007 CHOKE COIL 47µH-K LLBD00PKV0005 CHOKE COIL 47µH-K LLBD00PKV0005 L503 INDUCTOR 12µH-K-26T LLAXKATTU120 L701 INDUCTOR 14,µH-K-26T LLAXKATTU4R7 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100µH K) LAP02TAR47K LLAXKATTU47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608)			
L502 CHOKE COIL 47μH-K or LLBD00PKV007 CHOKE COIL 47μH-K or LLBD00PKV005 CHOKE COIL 47μH-K LLBD00PKV005 CHOKE COIL 47μH-K LLBD00PKV005 L503 INDUCTOR 12μH-K-26T LLAXKATTU120 LT01 INDUCTOR 1-7μH-K-28T LLAXKATTU120 LT01 INDUCTOR 1-7μH-K-28T LLAXKATTU120 LT01 PCB JUMPER D0.6-PS.0 JW5.0T L1010 PCB JUMPER D0.6-PS.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1521 INDUCTOR 47μH-K-5FT LLARKBSTU470 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1521 INDUCTOR 47μH-K-5FT LLARKBSTU470 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1521 INDUCTOR 47μH-K-5FT LLARKBSTU470 RS. BUILTIN TRANSISTOR KRC103M or RRXAZB520000 L1521 INDUCTOR 47μH-K-5FT LLARKBSTU470 RS. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RS. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RS. BUILTIN TRANSISTOR KRC103M or NQS40KT03198 TRANSISTOR S2C536NF-NPA-AT QQS6C536NNPA TRANSISTOR RS20536NF-NPA-AT QQS6C536NNPA TRANSISTOR RS20536NF-NPA-AT QQS6C536NNPA TRANSISTOR RS20536NF-NPA-AT QQS6C536NNPA TRANSISTOR RS201815-BL(TPE2) QQS202SC1815 TRANSISTOR RS201815-BL(TPE2) QQS102SA1015 TRANSISTOR RS201815-BL(TPE2) QQS102SA1015 TRANSISTOR RS201815-BL(TPE2) QQS102SA1015 TRANSISTOR RS201815-BL(TPE2) QQS102SA1015 TRANSISTOR RTC3198(GR) or NQS40KT03193 TRANSISTOR RTC3198(GR) or NQS40KT03193 TRANSISTOR RTC3198(GR) or NQS40KT03193 TRANSISTOR RTC3198(GR) or NQS40KT03193 TRANSISTOR RTC3198(GR) or NQS40KT03198			
CHOKE COIL 47μH-K or CHOKE COIL 47μH-K CHOKE COIL 47μH-K CHOKE COIL 47μH-K LIBD00PKT001 LLAXKATTU120 LLAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU120 LIAXKATTU147 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU101 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZR5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1			
CHOKE COIL 47μH-K L503 INDUCTOR 12μH-K-26T L1AXKATTU120 L1701 INDUCTOR 17μH-K-26T L1AXKATTU120 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR (10μH K) LAP02TA101K L1351 INDUCTOR (10μH K) LAP02TA101K L1351 INDUCTOR (0.47μH K) LAP02TA74TK L1401 CHIP RES. (1608) 1/10W 0 Ω or CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000 RRXAZB5Z0000 RRXAZB5Z0000 L1481 CHIP RES. (1608) 1/10W 0 Ω or RRXAZB5Z0000	2002	'	
L503 INDUCTOR 12μH-K-26T LLAXKATTU120 L701 INDUCTOR 4.7μH-K-26T LLAXKATTU4R7 L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1421 INDUCTOR 47μH-K-5FT LLARKBSTU470 L201 INDUCTOR 47μH-K-5FT LLAXKATTU101 L201 INDUCTOR (10)μH K) LAP02TA101K LLAXKATTU401 TRANSISTOR KTC3198(Y) or		'	
L701 INDUCTOR 4.7μH-K-26T LLAXKATTU4R7 L1009 PCB JUMPER D0.6-PS.0 JW5.0T L1010 PCB JUMPER D0.6-PS.0 JW5.0T L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100μH K) LAP02TA47K LLAXKATTU101 L1351 INDUCTOR(0.47μH K) LAP02TA47K LLAXKATTUR7 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608) 1/10W 0 Ω RRXA2R520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608) 1/10W 0 Ω RRXA2R520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2R520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2R520000 CHIP RES.(1608) 1/10W 0 Ω or RRXA2B520000 CHIP RES.(1608)	1503	'	
L1009 PCB JUMPER D0.6-P5.0 JW5.0T L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(100µH K) LAP02TA747K LLAXKATTUR47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1521 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 L2001 INDUCTOR(100µH K) LAP02TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RES. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RES. BUILTIN T		'	
L1010 PCB JUMPER D0.6-P5.0 JW5.0T L1350 INDUCTOR(100μH K) LAPO2TA101K LLAXKATTU101 L1351 INDUCTOR(0.47μH K) LAPO2TAR47K LLAXKATTUR47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 INDUCTOR 47μH-K-5FT LLARKBSTU470 L2001 INDUCTOR (100μH K) LAPO2TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RES. BUILTIN TRANSISTOR KRC103M or NQS20KRC103M RES. BUILTIN TRANSISTOR SAC560N-NPA-AT or QQS5C536NNPA Q055 TRANSISTOR KTC3198(Y) or NQS40KTC3198 TRANSISTOR SC5636N-NPA-		'	
L1350 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 L1351 INDUCTOR(0.47μH K) LAP02TAR47K LLAXKATTUR47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1444 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L14461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 RRXAZB5200			
L1351 INDUCTOR(0.47μH K) LAP02TAR47K LLAXKATTUR47 L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L14411 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L14421 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L14422 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZB5Z0000 L1521 INDUCTOR 47μH-K-5FT LLAKKSTU470 L1201 INDUCTOR (10μH K) LAP02TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILTIN TRANSISTOR KRC103M or NQSZ0KRC103M RES. BUILTIN TRANSISTOR KRC103M or NQSZ0KRC103M RES. BUILTIN TRANSISTOR BA1F4M-T QQSZ00BA1F4M Q055 TRANSISTOR KTC3198(R) or NQSY0KTC3198 TRANSISTOR S2C536NF-NPA-AT or QQSFC536NNPA TRANSISTOR S2C536NF-NPA-AT or QQSFC536NNPA TRANSISTOR S2C536NF-NPA-AT or NQSY0KTC3203 TRANSISTOR S2C2120-Y(TPE2) QQSY02SC2120 Q057 TRANSISTOR KTC3199(BL) or NQSS0KTC3199 TRANSISTOR S2C110-Y(TPE2) QQSY02SC2110 TRANSISTOR S2C110-Y(TPE2) QQSY02SC2185 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR KTC3193(Y) NQSY0KTC3193 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR KTC3198(Y) or NQSY0KTC3193 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR S2C110-FG(TPE2) QQS102SA1015 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR S2C360F-NPA-AT Or QQSFC360NIPA TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(Y) or NQSY0KTC3198			
L1401 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB520000 CHIP RES.(1608) 1/10W 0 Ω Or RRXAZR520000 CHIP RES.(1608) 1/10W 0 Ω Or RRXAZB520000 CHIP RES.(1608) 0 OR RRXAZB52000 CHIP RES.(1608) 0 OR RRXAZB52000 CHIP RES.(1608) 0 OR RRXAZB52000 CHIP RES.		` ' '	
CHIP RES.(1608) 1/10W 0 Ω or RRXAZR5Z0000 L1441 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1521 INDUCTOR 47µH-K-5FT LLARKBSTU470 L2001 INDUCTOR 47µH-K-5FT LLARKBSTU470 L2001 INDUCTOR (100µH K) LAPOZTA101K LLAXKATTU101 TRANSISTOR KT03198 Nor NQSZOKRC103M RES. BUILTIN TRANSISTOR BA1F4M-T QQSZOBA1F4M Q052 RES. BUILTIN TRANSISTOR BA1F4M-T QQSZOBA1F4M Q055 TRANSISTOR KTC3198(GR) or NQSYOKTC3198 TRANSISTOR KTC3198(GR) or NQSYOKTC3198 TRANSISTOR SC2536NG-NPA-AT QQSC0SC536NNPA Q056 TRANSISTOR KTC3203(Y) or NQSYOKTC3203		` ' '	
L1441 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω RRXAZR5Z0000 L1442 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω RRXAZR5Z0000 L1461 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1521 INDUCTOR 47μ1-H-K-5FT LLARKBSTU470 L2001 INDUCTOR (100μH K) LAP02TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILT-IN TRANSISTOR KRC103M or NQSZ0KRC103M RES. BUILT-IN TRANSISTOR KRC103M or NQSZ0KRC103M RES. BUILT-IN TRANSISTOR BA1F4M-T QQSZ00BA1F4M Q055 TRANSISTOR KTC3198(R) or NQSY0KTC3198 TRANSISTOR S2C536NF-NPA-AT or QQSC536NNPA TRANSISTOR XC3198(R) or NQSY0KTC3198 TRANSISTOR S2C536NF-NPA-AT or QQSC536NNPA Q056 TRANSISTOR KTC329(Y) or NQSY0KTC3203 TRANSISTOR S2C5286NF-NPA-AT OR NQSY0KTC3203 TRANSISTOR S2C5286NF-NPA-AT OR NQSY0KTC3203 TRANSISTOR S2C2785(K) or NQSY0ZSC2120 Q057 TRANSISTOR KTC3199(BL) or NQSS0KTC3199 TRANSISTOR S2C2785(K) or QQSC22SC1815 TRANSISTOR SC1815-BL(TPE2) QQS202SC1815 Q301 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q302 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q303 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q304 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q305 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q306 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q307 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q308 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q309 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q301 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q302 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q303 TRANSISTOR KTC3198(Y) or NQSY0KTC3193 TRANSISTOR SSA1015-GR(TPE2) QQS102SA1015 Q421 TRANSISTOR KTC3198(Y) or NQSY0KTC3193 TRANSISTOR SC31015-GR(TPE2) QQS102SA1015 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR SC356NF-NPA-AT OR NQSY0KTC3198	L1401	, ,	
CHIP RES(1608) 1/10W 0 Ω or RRXAZR5Z0000 L1442 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1461 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1521 INDUCTOR 47µH-K-5FT LLARKBSTU470 L2001 INDUCTOR (100µH K) LAPO2TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILTIN TRANSISTOR KRC103M or NQSZOKRC103M RES. BUILTIN TRANSISTOR KRC103M or NQSZOKRC103M RES. BUILTIN TRANSISTOR KRC103M or NQSYOKTC3198 TRANSISTOR KTC3198(GR) or NQSYOKTC3198 TRANSISTOR KTC3198(GR) or NQS40KTC3198 TRANSISTOR S2SC336NF-NPA-AT or QQSC536NNPA Q056 TRANSISTOR KTC3198(GR) or NQSYOKTC3203 TRANSISTOR KTC3198(F) or NQSYOKTC3203 TRANSISTOR KTC3203(Y) or NQSYOKTC3193 Q057 TRANSISTOR KTC3199(BL) or NQSYOKTC3193 <td>I 1///1</td> <td>, ,</td> <td></td>	I 1///1	, ,	
L1442 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZR5Z0000 RRXAZR5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZR5Z0000 RXXATTU101 LZ001 INDUCTOR 47µH-K-5FT LZ001 INDUCTOR 47µH-K-5T LZ0	L1441	, ,	
CHIP RES.(1608) 1/10W 0 Ω RRXAZR5Z0000 L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1481 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 L1521 INDUCTOR 47μH-K-5FT LLARKBSTU470 L2001 INDUCTOR(100μH K) LAP02TA101K LLAXKATTU101 TRANSISTORS Q052 RES. BUILT-IN TRANSISTOR KRC103M or RES. BUILT-IN TRANSISTOR SA1F4M-T QQSZ00BA1F4M Q055 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(GR) or NQS40KTC3198 TRANSISTOR S2SC36NF-NPA-AT or QQSFC536NNPA Q056 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR X5C36NF-NPA-AT QQSGC536NNPA TRANSISTOR XTC3198(Y) or NQSY0KTC3198 TRANSISTOR X5C36NF-NPA-TO QQSFC536NNPA Q056 TRANSISTOR KTC3198(Y) or NQSY0KTC3199 TRANSISTOR S2SC2120-Y(TPE2) QQSY02SC2120 Q057 TRANSISTOR KTC3199(BL) or NQSS0KTC3199 TRANSISTOR 2SC2785(K) or QQSK02SC2785 TRANSISTOR 2SC1815-BL(TPE2) QQS202SC1815 Q301 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q303 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q304 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q305 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q306 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q307 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q308 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q309 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q310 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q320 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q331 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q341 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q352 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q363 TRANSISTOR KTC3196(GR) or NQS40KTA1266 TRANSISTOR 2SA1015-GR(TPE2) QQS102SA1015 Q421 TRANSISTOR KTC3196(F) or NQS40KTA1266 TRANSISTOR XSC2120-Y(TPE2) QQS102SA1015 Q422 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR SSC2360F-NPA-AT OR QQSFC536NNPA TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR CSC536NF-NPA-AT OR QQSFC536NNPA TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(Y) or NQSY0KTC3198	I 1442	(,	
L1461 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZR5Z0000 RRXAZR5Z0000 CHIP RES.(1608) 1/10W 0 Ω or RRXAZB5Z0000 CHIP RES.(1608) 1/10W 0 Ω RRXAZR5Z0000 INDUCTOR (100μH K) LAPOZTA101K LLAXKATTU101 TRANSISTOR S Q052 RES. BUILT-IN TRANSISTOR KRC103M OF NQSZ0KRC103M RES. BUILT-IN TRANSISTOR KRC103M OF NQSZ0KRC103M RES. BUILT-IN TRANSISTOR RA1F4M-T QQSZ00BA1F4M QO55 TRANSISTOR KTC3198(Y) OF NQSY0KTC3198 TRANSISTOR X52536NF-NPA-AT OF QQSFC536NNPA TRANSISTOR X52536NS-NPA-AT QQSGC536NNPA TRANSISTOR X52536NS-NPA-AT QQSGC536NNPA TRANSISTOR X52536NS-NPA-AT QQSGC536NNPA TRANSISTOR X5252120-Y(TPE2) QQSY02SC2120 QQSY02SC2120 QQSY02SC2120 QQSY02SC2120 QQSY02SC2120 QQSY02SC2120 QQSY02SC2120 QQSY02SC2120 QQSY02SC2120 QQSY02SC21815 TRANSISTOR X52541015-GR(TPE2) QQS102SA1015 QQS02 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q303 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q31 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q31 TRANSISTOR KTC3193(Y) NQSY0KTC3193 Q31 TRANSISTOR KTC3196(GR) OF NQS40KTA1266 TRANSISTOR KTC3196(GR) OF NQS40KTA1266 TRANSISTOR KTC3196(GR) OF NQS40KTA1266 TRANSISTOR KTC3198(Y) OF NQSY0KTC3198 TRANSISTOR KTC3	L1772	,	
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Q424 TRANSISTOR KTC3198(Y) or NQSY0KTC3198 TRANSISTOR KTC3198(GR) or NQS40KTC3198 TRANSISTOR 2SC536NF-NPA-AT or QQSFC536NNPA			
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TRANSISTOR 2SC536NF-NPA-AT or QQSFC536NNPA		. ,	
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Ref. No.	Description	Part No.
Q425	RES. BUILT-IN TRANSISTOR KRA103M or	NQSZ0KRA103M
	RES. BUILT-IN TRANSISTOR BN1F4M-T	QQSZ00BN1F4M
Q501	TRANSISTOR KTC3199(BL) or	NQS50KTC3199
	TRANSISTOR 2SC2785(K) or	QQSK02SC2785
	TRANSISTOR 2SC1815-BL(TPE2)	QQS202SC1815
Q506	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q563	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q565	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q566	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q567	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q760	RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q762	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q763	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1004	TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
-	TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q1005	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
2.500	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(J) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2760(1) 01 TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-T(TFE2) 01 TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1006	TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
≪ 1000	110 11010101010101010101010101010101010	1100101111207

Ref. No.	Description	Part No.
	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
	TRANSISTOR 2SA1175(H) or	QQSH02SA1175
	TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q1011	TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
	TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q1201	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1202	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1203	TRANSISTOR KTA1266(GR) or	NQS40KTA1266
	TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015
Q1204	TRANSISTOR KTA1266(GR) or	NQS40KTA1266
	TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015
Q1351	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1385	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
-	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q2001	RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q2002	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q2003	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
	RESISTORS	1 1 30.0.0
R056	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R057	CARBON RES. 1/6W J 150 Ω or	RCX4JATZ0102 RCX6JATZ0151
1.001	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R058	CHIP RES.(1608) 1/10W J 180 Ω or	RRXAJB5Z0181
	CHIP RES.(1608) 1/10W J 180 Ω	RRXAJR5Z0181
	OF III IVEO. (1000) 1/1000 J 100 12	INNAMINAZUIOI

Ref. No.	Description	Part No.
R060	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R061	CARBON RES. 1/6W J 1.2k Ω or	RCX6JATZ0122
11001	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R062	CARBON RES. 1/6W J 5.6k Ω or	RCX6JATZ0562
11002	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R063	PCB JUMPER D0.6-P5.0	JW5.0T
R073	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R075	CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
11075	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R087	CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
1007	CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R088	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R090	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R091	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R253		RRXAJB5Z0473
K200	CHIP RES.(1608) 1/10W J 47k Ω or	
DOE4	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473 RRXAJB5Z0222
R254	CHIP RES.(1608) 1/10W J 2.2k Ω or	
Dana	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R303	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
D004	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R304	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
D	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R305	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
Dana	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R306	CHIP RES.(1608) 1/10W J 18k Ω or	RRXAJB5Z0183
D	CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R309	CHIP RES.(1608) 1/10W J 15k Ω or	RRXAJB5Z0153
D011	CHIP RES.(1608) 1/10W J 15k Ω	RRXAJR5Z0153
R311	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
D040	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R312	CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122
Doto	CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R313	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
Dooo	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R322	CHIP RES.(1608) 1/10W J 5.6M Ω or	RRXAJB5Z0565
Dooo	CHIP RES.(1608) 1/10W J 5.6M Ω	RRXAJR5Z0565
R323	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
Dag /	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R324	CHIP RES.(1608) 1/10W J 82k Ω or	RRXAJB5Z0823
	CHIP RES.(1608) 1/10W J 82k Ω	RRXAJR5Z0823
R326	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
D	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R327	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R328	CHIP RES.(1608) 1/10W J 680k Ω or	RRXAJB5Z0684
	CHIP RES.(1608) 1/10W J 680k Ω	RRXAJR5Z0684
R329	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R330	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R331	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R332	CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R341	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R342	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R343	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R357	PCB JUMPER D0.6-P5.0	JW5.0T

Ref. No.	Description	Part No.
R391	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R392	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R395	PCB JUMPER D0.6-P5.0	JW5.0T
R397	CHIP RES.(1608) 1/10W J 220 Ω or	RRXAJB5Z0221
	CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R401	CHIP RES.(1608) 1/10W J 27k Ω or	RRXAJB5Z0273
	CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R402	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R407	CHIP RES.(1608) 1/10W J 2.2M Ω or	RRXAJB5Z0225
	CHIP RES.(1608) 1/10W J 2.2M Ω	RRXAJR5Z0225
R408	CHIP RES.(1608) 1/10W J 6.8k Ω or	RRXAJB5Z0682
	CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R409	CHIP RES.(1608) 1/10W J 3.3k Ω or	RRXAJB5Z0332
	CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R410	CHIP RES.(1608) 1/10W J 6.8k Ω or	RRXAJB5Z0682
	CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R411	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R412	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R413	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R414	CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R415	CHIP RES.(1608) 1/10W J 12k Ω or	RRXAJB5Z0123
	CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R416	CHIP RES.(1608) 1/10W J 330k Ω or	RRXAJB5Z0334
	CHIP RES.(1608) 1/10W J 330k Ω	RRXAJR5Z0334
R417	CHIP RES.(1608) 1/10W J 150 Ω or	RRXAJB5Z0151
D.110	CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R418	CHIP RES.(1608) 1/10W J 18k Ω or	RRXAJB5Z0183
D440	CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R419	CHIP RES.(1608) 1/10W J 910 Ω or	RRXAJB5Z0911
R421	CHIP RES.(1608) 1/10W J 910 Ω CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJR5Z0911 RRXAJB5Z0102
K421	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJB520102 RRXAJR5Z0102
R422	CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
11422	CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R424	CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
11424	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R425	CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
11420	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R426	CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
11120	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R428	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R429	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R453	CHIP RES.(1608) 1/10W J 27k Ω or	RRXAJB5Z0273
	CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R454	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R465	CHIP RES.(1608) 1/10W J 27k Ω or	RRXAJB5Z0273
	CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R466	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R502	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R503	CHIP RES.(1608) 1/10W J 820 Ω or	RRXAJB5Z0821
	CHIP RES.(1608) 1/10W J 820 Ω	RRXAJR5Z0821
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Ref. No.	Description	Part No.
R504	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R506	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R508	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R511	CHIP RES.(1608) 1/10W J 39k Ω or	RRXAJB5Z0393
	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R517	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R518	CHIP RES.(1608) 1/10W J 220k Ω or	RRXAJB5Z0224
	CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R521	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R522	PCB JUMPER D0.6-P5.0	JW5.0T
R523	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R524	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R525	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R526	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R527	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R528	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R529	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R530	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R531	CARBON RES. 1/6W G 4.7k Ω or	RCX6GATZ0472
	CARBON RES. 1/4W G 4.7k Ω	RCX4GATZ0472
R532	CARBON RES. 1/6W G 1.5k Ω or	RCX6GATZ0152
	CARBON RES. 1/4W G 1.5k Ω	RCX4GATZ0152
R533	CARBON RES. 1/6W G 22k Ω or	RCX6GATZ0223
	CARBON RES. 1/4W G 22k Ω	RCX4GATZ0223
R534	CARBON RES. 1/6W G 470 Ω or	RCX6GATZ0471
	CARBON RES. 1/4W G 470 Ω	RCX4GATZ0471
R535	CARBON RES. 1/6W G 10k Ω or	RCX6GATZ0103
	CARBON RES. 1/4W G 10k Ω	RCX4GATZ0103
R536	CARBON RES. 1/6W G 3.6k Ω or	RCX6GATZ0362
	CARBON RES. 1/4W G 3.6k Ω	RCX4GATZ0362
R537	CHIP RES.(1608) 1/10W J 33k Ω or	RRXAJB5Z0333
	CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R540	CHIP RES.(1608) 1/10W J 390k Ω or	RRXAJB5Z0394
	CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R541	CHIP RES.(1608) 1/10W J 390k Ω or	RRXAJB5Z0394
	CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R542	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R543	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R544	CHIP RES.(1608) 1/10W J 18k Ω or	RRXAJB5Z0183
	CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R545	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R546	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R551	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R561	CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R566	CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
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Ref. No.	Description	Part No.
	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R567	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R568	CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R570	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R573	CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R574	CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R575	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R576	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R583	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R590	CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
	CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R593	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R594	CHIP RES.(1608) 1/10W J 3.9k Ω or	RRXAJB5Z0392
	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R606	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R607	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R610	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R612	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R614	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R615	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R618	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R620	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R625	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R701	CHIP RES.(1608) 1/10W J 330 Ω or	RRXAJB5Z0331
	CHIP RES.(1608) 1/10W J 330 Ω	RRXAJR5Z0331
R702	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R703	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R704	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R705	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R707	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R751	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R752	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R753	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R756	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R757	CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R777	CARBON RES. 1/6W J 27k Ω or	RCX6JATZ0273
	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273

Ref. No.	Description	Part No.
R778	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R779	CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R780	CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R782	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R783	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R784	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R785	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R786	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R787	CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1025	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1044	CHIP RES.(1608) 1/10W J 220k Ω or	RRXAJB5Z0224
	CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R1059	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1068	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1076	CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
	CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R1077	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R1080	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1085	CHIP RES. 1/10W F 120 Ω or	RRXAFB5H1200
	CHIP RES. 1/10W F 120 Ω or	RRXAFB5Z1200
	CHIP RES. 1/10W F 120 Ω	RRXAFR5H1200
R1086	CHIP RES.(1608) 1/10W F 1.0k Ω or	RRXAFB5H1001
	CHIP RES.(1608) 1/10W F 1.0k Ω or	RRXAFB5Z1001
	CHIP RES.(100PPM) 1/10W F 1.0k Ω	RRXAFR5H1001
R1087	CHIP RES.(1608) 1/10W J 680 Ω or	RRXAJB5Z0681
	CHIP RES.(1608) 1/10W J 680 Ω	RRXAJR5Z0681
R1090	CHIP RES.(1608) 1/10W J 3.9k Ω or	RRXAJB5Z0392
	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R1091	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1203	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1204	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1205	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFB5H2002
	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFB5Z2002
	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFR5H2002
	CHIP RES.(1608) 1/10W F 20k Ω	RRXAFR5Z2002
R1206	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFB5H2002
	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFB5Z2002
	CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFR5H2002
	CHIP RES.(1608) 1/10W F 20k Ω	RRXAFR5Z2002
R1207	CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R1208	CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R1209	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFB5H3002
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFB5Z3002
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5H3002
	CHIE KES.(1000) 1/1000 F 30K 12 0I	KKAAI KSI ISUUZ
	CHIP RES.(1608) 1/10W F 30k Ω	RRXAFR5Z3002

Ref. No.	Description	Part No.
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFB5Z3002
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5H3002
	CHIP RES.(1608) 1/10W F 30k Ω	RRXAFR5Z3002
R1211	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1212	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1221	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1222	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1223	CHIP RES.(1608) 1/10W J 470 Ω or	RRXAJB5Z0471
	CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1224	CHIP RES.(1608) 1/10W J 470 Ω or	RRXAJB5Z0471
	CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1225	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1226	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1233	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1235	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1236	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1237	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1238	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
200	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1239	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
200	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1240	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1245	CHIP RES.(1608) 1/10W J 10 Ω or	RRXAJB5Z0100
	CHIP RES.(1608) 1/10W J 10 Ω	RRXAJR5Z0100
R1351	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R1352	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
111002	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1353	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
111000	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1354	CHIP RES.(1608) 1/10W J 220 Ω or	RRXAJB5Z0221
111004	CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R1355	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
111333	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1356	CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
11330	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1371	CHIP RES.(1608) 1/10W 3 100K 22 CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
KISTI	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
D1202	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1392	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
R1396	,	
D1207	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1397	CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
D1/02	CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R1402	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
D4.400	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1422	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
D4.440	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1442	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
D4440	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1443	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750

Dof No	Description	Dord No.
Ref. No.	Description	Part No.
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1462	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1482	CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
	CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1612	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2001	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2002	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2003	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2005	CHIP RES.(1608) 1/10W J 6.8k Ω or	RRXAJB5Z0682
	CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R2006	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2028	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2031	CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
	CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R2051	CHIP RES.(1608) 1/10W J 3.9k Ω or	RRXAJB5Z0392
	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R2052	CHIP RES.(1608) 1/10W J 3.9k Ω or	RRXAJB5Z0392
	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R2053	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R2054	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R2055	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2056	CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
112000	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2063	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
112000	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
	SWITCHES	TTTVAZITOZOOO
SW502	TACT SWITCH KSM0614B or	CCT0101UU012
30002		SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
CIA/EOO	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW503	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
014/504	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW504	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
014/505	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW505	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW511	LEAF SWITCH MXS01830MVP0	SSC0101MCE03
SW512	ROTARY MODE SWITCH SSS-50MD or	SSR0106KB002
	ROTARY MODE SWITCH R8100245	SSR0106U3002
SW2002	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2003	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
-	MISCELLANEOUS	
2B11	SHIELD ASSEMBLY H9200UD	0VM413279
2B15	BUSH, LED(F) H3700UD	0VM409508
2B33	HEATSINK H9400UD	0VM414786
2L013	SCREW, S-TIGHT M3X8 BIND + CHROME	GBMS3080
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Ref. No.	Description	Part No.
JC02	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
JK751	RCA JACK MSP-213V1-324 PBSN	JXRL030LY064
JK752	RCA JACK MSP-382V-14 PBSN	JXRL020LY074
JK753	RCA JACK(YELLOW) MSP-281V4-B	JXRL010LY003
JK755	RCA JACK(WHITE) MSP-281V1-B	JXRL010LY005
JK756	RCA JACK MSP-382V-12 PBSN	JXRL020LY063
JK1202	RCA JACK(BLACK) MSP-281V2-B	JXRL010LY062
JK1401	S TYPE JACK MDC-050V-2.4	JXEL040LY001
JK1403	RCA JACK MSP-213V1-652 PBSN	JXRL030LY061
RM2001	REMOTE RECEIVER MIM-93M6DKF or	USESJRSUNT01
	REMOTE RECEIVER PIC-37042LU	USESJRSKK033
TP301	PCB JUMPER D0.6-P10.0	JW10.0T
TP302	PCB JUMPER D0.6-P16.0	JW16.0T
TP502	PCB JUMPER D0.6-P5.0	JW5.0T
TP505	PCB JUMPER D0.6-P5.0	JW5.0T
TP506	PCB JUMPER D0.6-P14.0	JW14.0T
TP507	PCB JUMPER D0.6-P7.5	JW7.5T
TP513	PCB JUMPER D0.6-P10.0	JW10.0T
TP751	PCB JUMPER D0.6-P10.0	JW10.0T
TP753	PCB JUMPER D0.6-P7.5	JW7.5T
TP754	PCB JUMPER D0.6-P7.5	JW7.5T
TU701	TUNER UNIT VH025AP or	UTUNNTUSP024
	TUNER UNIT TMZH2-001A or	UTUNNTUAL030
	TUNER UNIT TMZH2-010B or	UTUNNTUAL034
	TUNER UNIT VH025AFE	UTUNNTUSP026
VR501	CARBON P.O.T. 100k Ω B	VRCB104HH014
W011	FFC CABLE, 22P FFC/P1.00/250	WX1H9400-011
W014	FFC CABLE, 16P FFC/P1.00/220	WX1H9400-014
W017	FFC CABLE, 4P FFC/P1.00/210	WX1H9400-017
X301	XTAL 3.579545MHz(20PPM) or	FXC355LLN003
	XTAL 3.579545MHz(20PPM) or	FXC355LCHE01
	XTAL 3.579545MHz(20PPM) or	FXC355LDS001
	XTAL 3.579545MHz(20PPM)	FXC355LDYN01
X502	XTAL 32.768kHz(20PPM) or	FXC323LQUA01
	XTAL 32.768kHz(20PPM) or	FXC323LDS002
	X'TAL 32.768kHz(20PPM)	FXC323LCHE01

FUNCTION CBA

Ref. No.	Description	Part No.	
	FUNCTION CBA(MCV-B) Consists of the following		
	DIODES		
LED EXCL	USIVE(A)		
D561	LED(RED) 204HD/E	NPQZ00204HDE	
LED EXCL	USIVE(B)		
D561	LED(RED) LTL-4211N	NPQZLTL4211N	
	RESISTORS		
R584	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000	
	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000	
R585	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102	
	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102	
R586	CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122	
	CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122	
R587	CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152	
	CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152	
R588	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222	
	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222	
SWITCHES			

Ref. No.	Description	Part No.
SW501	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW508	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW509	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW513	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW514	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS		
2B13	BUSH, LED(E) H1600UD	0VM408832
W104	PARALLEL WIRE, 3P AWG26#2651/P2.0/125	WX1H9400-104

DVD OPEN/CLOSE CBA

Ref. No.	Description	Part No.
	DVD OPEN/CLOSE CBA(MCV-C) Consists of the following	
	SWITCHES	
SW2001	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS		
W103	PARALLEL WIRE, 2P AWG26#2651/P2.0/100	WX1H9400-103

DVD SW CBA

Ref. No.	Description	Part No.
	DVD SW CBA(MCV-D) Consists of the following	
	SWITCHES	Т.
SW2005	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2006	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS		
W105	PARALLEL WIRE, 3P AWG26#2651/P2.0/100	WX1H9400-105

SENSOR CBA

Ref. No.	Description	Part No.
	SENSOR CBA Consists of the following	0VSA13627
TRANSISTORS		
Q503	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q504	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F

PSV CBA

Ref. No.	Description	Part No.
	PSV CBA Consists of the following	0VSA14711
	POWER SUPPLY CBA (PSV-A) JUNCTION CBA (PSV-B)	

POWER SUPPLY CBA

Ref. No.	Description	Part No.
	POWER SUPPLY CBA (PSV-A) Consists of the following	
	CAPACITORS	
C013	ELECTROLYTIC CAP. 10μF/50V M H7	CE1JMASSL100
C017	CERAMIC CAP. YV Z 0.01μF/50V	CCD1JZSYV103
C018	ELECTROLYTIC CAP. 470μF/25V M or	CE1EMASDL471
	ELECTROLYTIC CAP. 470μF/25V M	CE1EMASTL471
C020	ELECTROLYTIC CAP. 1000μF/16V M or	CE1CMZPDL102
	ELECTROLYTIC CAP. 1000μF/16V M	CE1CMZPTL102
C021	ELECTROLYTIC CAP. 470μF/10V M or	CE1AMASDL471
	ELECTROLYTIC CAP. 470μF/10V M	CE1AMASTL471
C1001A	METALLIZED FILM CAP. 0.022μF/275V K or	CT2E223HJE13
A	METALLIZED FILM CAP. 0.022μF/275V K or	CT2E223HJE05
A	METALLIZED FILM CAP. 0.022μF/250V K or	CT2E223DC011
A	METALLIZED FILM CAP. 0.022μF/250V M	CT2E223MS037
C1002	ELECTROLYTIC CAP. 22µF/50V M or	CE1JMASDL220
	ELECTROLYTIC CAP. 22μF/50V M	CE1JMASTL220
C1003	CERAMIC CAP. B K 0.01µF/500V	CCD2JKP0B103
C1004	ELECTROLYTIC CAP. 220µF/200V M	CA2D221S6008
C1005	CERAMIC CAP B K 120pF/500V	CCD2JKP0B121
C1006	SAFETY CAP. 3300pF/250V or	CCG2EMA0F332
A	SAFETY CAP. 3300pF/250V	CCD2EMA0E332
C1007	ELECTROLYTIC CAP. 1000µF/6.3V M or	CE0KMASDL102
	ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASTL102
C1008	CERAMIC CAP. B K 220pF/500V	CCD2JKP0B221
C1013	CERAMIC CAP(AX) X K 3300pF/16V	CCA1CKT0X332
C1014	ELECTROLYTIC CAP. 470μF/25V M or	CE1EMASDL471
	ELECTROLYTIC CAP. 470μF/25V M	CE1EMASTL471
C1022	CHIP CERAMIC CAP. B K 5600pF/50V	CHD1JK30B562
C1023	CERAMIC CAP. B K 470pF/100V	CCD2AKS0B471
C1029	CERAMIC CAP.(AX) X K 5600pF/16V	CCA1CKT0X562
C1032	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C1033	CERAMIC CAP. YV Z 0.022µF/50V	CCD1JZSYV223
	DIODES	
D013	RECTIFIER DIODE BA158 or	NDQZ000BA158
20.0	RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D015	SCHOTTKY BARRIER DIODE SB360	NDQZ000SB360
D016	SCHOTTKY BARRIER DIODE SB340	NDQZ000SB340
D018	ZENER DIODE DZ-8.2BSAT265 or	NDTA0DZ8R2BS
D010	ZENER DIODE MTZJT-778.2A	QDTA0MTZJ8R2
D020	PCB JUMPER D0.6-P5.0	JW5.0T
D030	RECTIFIER DIODE BA157 or	NDQZ000BA157
D030	FAST RECOVERY DIODE ERA18-04	QDPZ0ERA1804
D1001	RECTIFIER DIODE 1N4005	NDQZ001N4005
_	RECTIFIER DIODE 1N4005	
D1002		NDQZ001N4005
D1003	RECTIFIER DIODE 1N4005	NDQZ001N4005
D1004	RECTIFIER DIODE 1N4005	NDQZ001N4005
D1006	PCB JUMPER D0.6-P5.0	JW5.0T
D1007	CARBON RES. 1/4W J 68k Ω	RCX4JATZ0683
D1008	SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
	SCHOTTKY BARRIER DIODE ERB81-004	AERB81004***

Ref. No.	Description	Part No.
D1010	RECTIFIER DIODE BA158 or	NDQZ000BA158
	RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D1011	RECTIFIER DIODE BA158 or	NDQZ000BA158
	RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D1012	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1018	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1020	SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
	SCHOTTKY BARRIER DIODE ERB81-004	AERB81004***
D1022	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1024	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1025	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1031	PCB JUMPER D0.6-P5.0	JW5.0T
D1032	PCB JUMPER D0.6-P5.0	JW5.0T
	ICS	
IC1001A	PHOTOCOUPLER LTV-817B-F or	NPEB0LTV817F
A	PHOTOCOUPLER EL817B or	NPEB000EL817
A	PHOTOCOUPLER EL817C	NPEC000EL817
IC1006	IC:SHUNT REGULATOR KIA431-AT or	NSZLA0TJY001
	IC:SHUNT REGULATOR TL431A-TA or	NSZBA0TQ2003
	IC KIA431A-AT or	NSZBA0TJY018
	IC:SHUNT REGULATOR TL431-TA	NSZBA0TQ2002
	COILS	
L003	BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L009	CHOKE COIL 47µH-K or	LLBD00PKV007
	CHOKE COIL 47µH-K or	LLBD00PKV005
	CHOKE COIL 47µH-K	LLBD00PKT001
L1001	LINE FILTER 27MH TLF14CB2730R4 or	LLBG00ZTU034
A	LINE FILTER 27MH CSA-LF199A	LLBG00ZSA008
L1007	CHOKE COIL 47µH-K or	LLBD00PKV007
	CHOKE COIL 47µH-K or	LLBD00PKV005
	CHOKE COIL 47µH-K	LLBD00PKT001
L1020	CHOKE COIL 47µH-K or	LLBD00PKV007
	CHOKE COIL 47µH-K or	LLBD00PKV005
	CHOKE COIL 47µH-K	LLBD00PKT001
	TRANSISTORS	
Q1001	FET 2SK3543	QFWZ02SK3543
Q1003	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1008	TRANSISTOR KTC3199(Y)	NQSY0KTC3199
	RESISTORS	
R001	GLASS GLAZE RES. 1/2W J 3.3M Ω or	RXX2JZLZ0335
	CARBON RES. 1/2W J 3.3M Ω	RCX2335DP001
R037	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R082	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R1004	METAL OXIDE FILM RES. 2W J 82k Ω or	RN02JZLZ0823
-	METAL OXIDE FILM RES. 2W J 82k Ω	RN02JZQZ0823
R1005	CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1006	CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1008	CARBON RES. 1/4W G 1k Ω	RCX4GATZ0102
R1010	CARBON RES. 1/6W J 6.8k Ω or	RCX6JATZ0682
	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R1011	METAL OXIDE FILM RES. 1W J 0.68 Ω or	RN01R68ZU001
	METAL OXIDE FILM RES. 1W J 0.68 Ω	RN01R68KE009
R1019	CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5H2201
	CHIP RES.(1608) 1/10W F 2.2k Ω	RRXAFR5Z2201
R1020	CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
111020	O INEO.(1000) 1/1000 0 1.0N 22	IN CONTROLUTUR

Ref. No.	Description	Part No.
R1021	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1022	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1023	CHIP RES.(1608) 1/10W F 2k Ω or	RRXAFR5H2001
	CHIP RES.(1608) 1/10W F 2k Ω	RRXAFR5Z2001
R1024	CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1029	CARBON RES. 1/6W J 82k Ω or	RCX6JATZ0823
	CARBON RES. 1/4W J 82k Ω	RCX4JATZ0823
R1032	CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R1034	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R1035	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1036	CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1037	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1038	CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1039	CARBON RES. 1/6W J 470k Ω or	RCX6JATZ0474
	CARBON RES. 1/4W J 470k Ω	RCX4JATZ0474
R1043	METAL OXIDE FILM RES. 1W J 2.7 Ω or	RN01JZLZ02R7
	METAL OXIDE FILM RES. 1W J 2.7 Ω	RN01JZQZ02R7
R1095	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
	MISCELLANEOUS	'
AC1001	AC CORD A0A0280-007 or	WAC0172LTE04
A	AC CORD PB8K9F9110A-057 or	WAC0172LW008
A	AC CORD PB8B2F9110A-057 or	WAC0172LW011
A	AC CORD A0A0280-017 or	WAC0172LTE06
A	AC CORD WAC0172ADE01	WAC0172ADE01
F1001A	FUSE SIC 1A 250V U/C T or	PAGG20CW3102
A	FUSE 1A/250V	PAGG20CAG102
FH1001	FUSE HOLDER MSF-015	XH01Z00LY001
FH1002	FUSE HOLDER MSF-015	XH01Z00LY001
T001A	SWITCHING TRANSFOMER CSA-SW0276A	LTT00CPSA140
W101	PARALLEL WIRE, 8P AWG26#2651/P2.0/65	WX1H9400-101
W102	PARALLEL WIRE, 7P AWG26#2651/P2.0/50	WX1H9400-102

JUNCTION CBA

Ref. No.	Description	Part No.
	JUNCTION CBA (PSV-B) Consists of the following	
CONNECTOR		
CN1005	CONNECTOR, 15P TUC-P15X-B1	JCTUS15TG001

DECK PARTS LIST

Ref.No	Description	Part No.
B2	CYLINDER ASSEMBLY MK12 NTSC 4HD	N1648CYL
B3	LOADING MOTOR ASSEMBLY MK12	0VSA13665
B8	PULLEY ASSEMBLY MK12	0VSA13500
B9	MOVING GUIDE S PREPARATION MK12	0VSA13560
B10	MOVING GUIDE T PREPARATION MK12	0VSA13562
B11	LOADING ARM(TU) ASSEMBLY MK12	0VSA13300
B12	LOADING ARM(SP) ASSEMBLY MK12	0VSA13299
B31	AC HEAD ASSEMBLY MK12	0VSA13275
B35	TAPE GUIDE ARM ASSEMBLY MK12	0VSA13277
B37	CAPSTAN MOTOR 288/VCCM012	N9670CML
	CAP BELT MK10	
B52		0VM411138
B73	FE HEAD ASSEMBLY MK11 or	N9742FEL
	FE HEAD ASSEMBLY MK11 or	N9743FEL
	FE HEAD(MK11) MH-131SF11 or	DHVEC01Z0005
	FE HEAD(MK11) VTR-1X2ERS11-148 or	DHVEC01TE004
	FE HEAD(MK12) VTR-1X2ERS11-155 or	DHVEC01TE005
	FE HEAD(MK12) HVFHP0047A	DHVEC01AL007
B74	PRISM MK10	0VM202870
B121	WORM MK12	0VM414091
B126	PULLEY MK12	0VM414330B
B133	IDLER GEAR MK12	0VM305738
B134	IDLER ARM MK12	0VM305739
B148	TG CAP MK11	0VM412972
B300	C DRIVE LEVER(TU) MK12	0VM203773
B303	F DOOR OPENER MK12 or	0VM203751C
	F DOOR OPENER MK12	0VM203751
B313	C DRIVE SPRING MK12	0VM414145
B347	GUIDE HOLDER A MK10	0VM304920
B354	SLIDER(TU) MK12	0VM101172F
B355	SLIDER(SP) MK12 or	0VM101182F
	SLIDER(SP) SUB ASSEMBLY MK12 or	0VDM12542
	SLIDER(SP) MK12	0VM101182H
B359	CLEANER LEVER MK10	0VM304413
B360	CLEANER ROLLER MK9	0VM410032C
B361	CL POST MK10	0VM411114
B410	PINCH ARM(A) ASSEMBLY(4) MK12 or	0VSA13572
B110	PINCH ARM(A) ASSEMBLY(5) MK12	0VSA13788
B411	PINCH SPRING MK12	0VM414644
B414	M BRAKE(SP) ASSEMBLY MK12	0VSA13282
B416	M BRAKE(TU) ASSEMBLY MK12	0VSA13283
B417	TENSION SPG(3002645) MK12	0VSA13283 0VM414221F
	LOCK LEVER SPRING MK10	
B425		0VM411110
B426	KICK PULLEY MK10	0VM411095
B482	CASSETTE PLATE MK12	0VM203749
B483	LOCK LEVER MK12	0VM414095
B487	BAND BRAKE(SP) MK12	0VM305723
B488	MODE LEVER MK12	0VM101173
B491	CAM GEAR(A) MK12	0VM101174
B492	MODE GEAR MK12	0VM203769
B494	C DOOR OPENER MK12	0VM305719
B499	T LEVER HOLDER MK12	0VM305729
B501	WORM HOLDER MK12 or	0VM203767
	WORM HOLDER(R) MK12	0VM204324
B502	CAM GEAR(B) MK12	0VM305721
B507	REEL WASHER MK9 5*2.1*0.5	0VM410058
B508	S BRAKE SPRING MK10	0VM411121

Ref.No	Description	Part No.
B513	CAM WASHER MK12	0VM414741
B514	SCREW RACK MK10	0VM411535
B516	REEL WASHER MK9 5*2.1*0.5	0VM410058
B520	TU BRAKE SPRING MK12	0VM414285
B521	REV BRAKE SPRING MK12	0VM414222
B522	TG POST ASSEMBLY MK11	0VSA12080
B525	LDG BELT MK11	0VM412804
B529	CLEANER ASSEMBLY MK10	0VSA11161
B553	REV SPRING MK11	0VM412555
B555	RACK ASSEMBLY MK12	0VSA13289
B557	MOTOR PULLEY U5	0VM403205A
B558	LOADING MOTOR M31E-1 R14 7352 or	MMDZB12MM005
	LOADING MOTOR M31E-1 R-14 7376 or	MMDZB12MM003
	LOADING MOTOR M31E-1 R-14 7377	MMDZB12MM006
B559	CLUTCH ASSEMBLY MK12	0VSA13284
B560	KICK SPRING MK10	0VM411475A
B562	C DRIVE LEVER(SP) MK12	0VM203772
B563	SLIDER SHAFT MK12	0VM305762
B564	M GEAR MK12	0VM305735
B565	SENSOR GEAR MK12	0VM305736
B567	PINCH ARM(B) MK12	0VM305718
B568	BT ARM MK12	0VM305728
B570	CAM RACK SPRING(HI) MK11	0VM412923
B571	P.S.W CUT 1.6X4.0X0.5T	0VM408485A
B573	REEL(SP)(D2) MK12	0VM203755
B574	REEL(TU)(D2) MK12	0VM203756
B587	TENSION LEVER ASSEMBLY MK12	0VSA13279
B590	BRAKE ARM(TU) MK12	0VM203752E
B591	BAND BRAKE(TU) MK12	0VM305724C
B592	TG POST MK11	0VM412550
B593	CAM HOLDER(F) ASSEMBLY MK12	0VSA13390
L1051	SCREW, B-TIGHT M2.6X6 PAN HEAD+	GPMB9060
L1053	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	GCMS9080
L1151	SCREW, SEMS M2.6X4 PAN HEAD+	CPM39040
L1191	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	GCMS9080
L1321	SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060
L1341	SCREW, P-TIGHT M2X6 PAN HEAD+	GPMP2060
L1406	AC HEAD SCREW MK9	0VM410964
L1450	SCREW, SEMS M2.6X5 PAN HEAD+	CPM39050
L1466	SCREW, S-TIGHT M2.6X6 BIND HEAD+	GBMS9060
L1467	SCREW M2.6X5 WASHER HEAD+	SCM39050